

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT **APPLICATION FOR PERMIT TO DRILL**

2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				1. WELL NAME and NUMBER NBU 921-25B1CS			
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO				3. FIELD OR WILDCAT NATURAL BUTTES			
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.				5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES			
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217				7. OPERATOR PHONE 720 929-6007			
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UO 1189 ST		11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		9. OPERATOR E-MAIL Kathy.SchneebeckDulnoan@anadarko.com			
13. NAME OF SURFACE OWNER (if box 12 = 'fee')				14. SURFACE OWNER PHONE (if box 12 = 'fee')			
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')				16. SURFACE OWNER E-MAIL (if box 12 = 'fee')			
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>		19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>			
20. LOCATION OF WELL	FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	489 FNL 575 FEL		NENE	25	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	416 FNL 1676 FEL		NWNE	25	9.0 S	21.0 E	S
At Total Depth	416 FNL 1676 FEL		NWNE	25	9.0 S	21.0 E	S
21. COUNTY UINTAH	22. DISTANCE TO NEAREST LEASE LINE (Feet) 416			23. NUMBER OF ACRES IN DRILLING UNIT 240			
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 455			26. PROPOSED DEPTH MD: 9833 TVD: 9659			
27. ELEVATION - GROUND LEVEL 4900	28. BOND NUMBER 22013542			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496			

ATTACHMENTS**VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES**

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN	
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER	
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP	
NAME Danielle Piernot	TITLE Regulatory Analyst	PHONE 720 929-6156
SIGNATURE	DATE 08/13/2010	EMAIL gnbregulatory@anadarko.com
API NUMBER ASSIGNED 43047512380000	APPROVAL	 Permit Manager

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	9833		
Pipe	Grade	Length	Weight			
	Grade I-80 Buttress	9833	11.6			

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	11	8.625	0	2390		
Pipe	Grade	Length	Weight			
	Grade I-80 LT&C	2390	28.0			

NBU 921-25B1CS

Pad: NBU 921-25A

Surface: 489' FNL 575' FEL (NE/4NE/4)

BHL: 416' FNL 1,676' FEL (NW/4NE/4)

Section 25 T9S R21E

Uintah County, Utah

Mineral Lease: UO 1189 ST

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. – 2. Estimated Tops of Important Geologic Markers:

Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 – Surface	
Green River	1,476'	
Birds Nest	1,767'	Water
Mahogany	2,135'	Water
Wasatch	4,742'	Gas
Mesaverde	7,420'	Gas
MVU2	8,339'	Gas
MVL1	8,878'	Gas
TVD	9,659'	
TD	9,833'	

3. Pressure Control Equipment (Schematic Attached)

Please refer to the attached Drilling Program.

4. Proposed Casing & Cementing Program:

Please refer to the attached Drilling Program.

5. Drilling Fluids Program:

Please refer to the attached Drilling Program.

6. Evaluation Program:

Please refer to the attached Drilling Program.

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 9,659' TVD, approximately equals 5,917 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 3,792 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

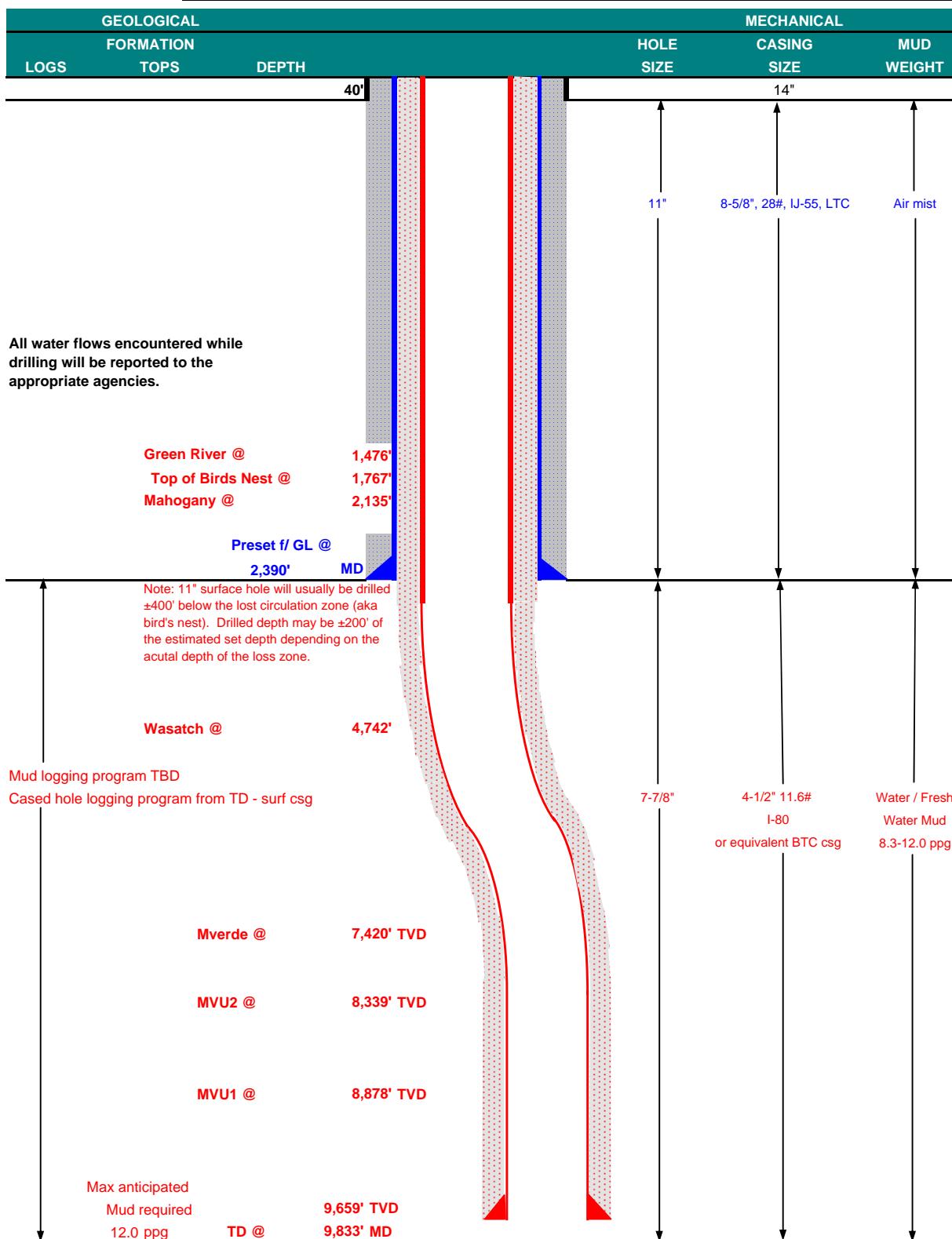
10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-MCGEE OIL & GAS ONSHORE LP	DATE	August 12, 2010		
WELL NAME	NBU 921-25B1CS	TD	9,659' TVD 9,833' MD		
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
SURFACE LOCATION	NE/4 NE/4	489' FNL	575' FEL	Sec 25	T 9S R 21E
	Latitude:	40.012933	Longitude:	-109.492039	NAD 27
BTM HOLE LOCATION	NW/4 NE/4	416' FNL	1,676' FEL	Sec 25	T 9S R 21E
	Latitude:	40.013146	Longitude:	-109.495968	NAD 27
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: UDOGM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.				





KERR-MCGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,390	28.00	IJ-55	LTC	0.85	1.68	5.15
PRODUCTION	4-1/2"	0 to 9,833	11.60	I-80	BTC	7,780 1.99	6,350 1.05	278,000 2.79

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above.

D.F. = 2.25

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 12.0 ppg)

0.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 3,792 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD = 12.0 ppg)

0.61 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MABHP 5,917 psi**CEMENT PROGRAM**

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD 500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
	TOP OUT CMT (6 jobs) 1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
SURFACE Option 2	LEAD 1,890'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	170	35%	11.00	3.82
	TAIL 500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
PRODUCTION	TOP OUT CMT as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
	LEAD 4,233'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	310	10%	11.00	3.38
	TAIL 5,600'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,080	10%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

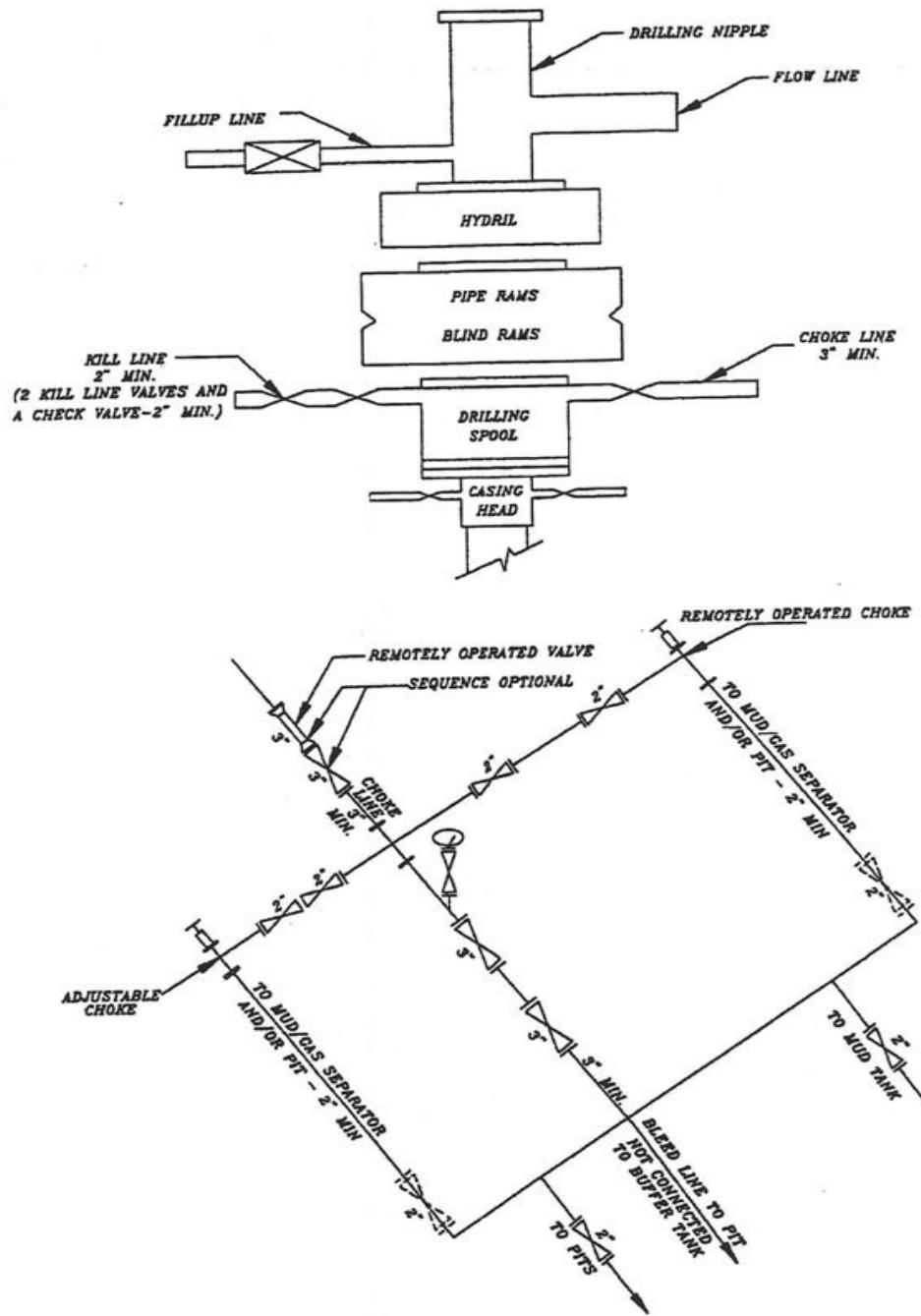
John Huycke / Emile Goodwin

DATE: _____**DRILLING SUPERINTENDENT:**

John Merkel / Lovel Young

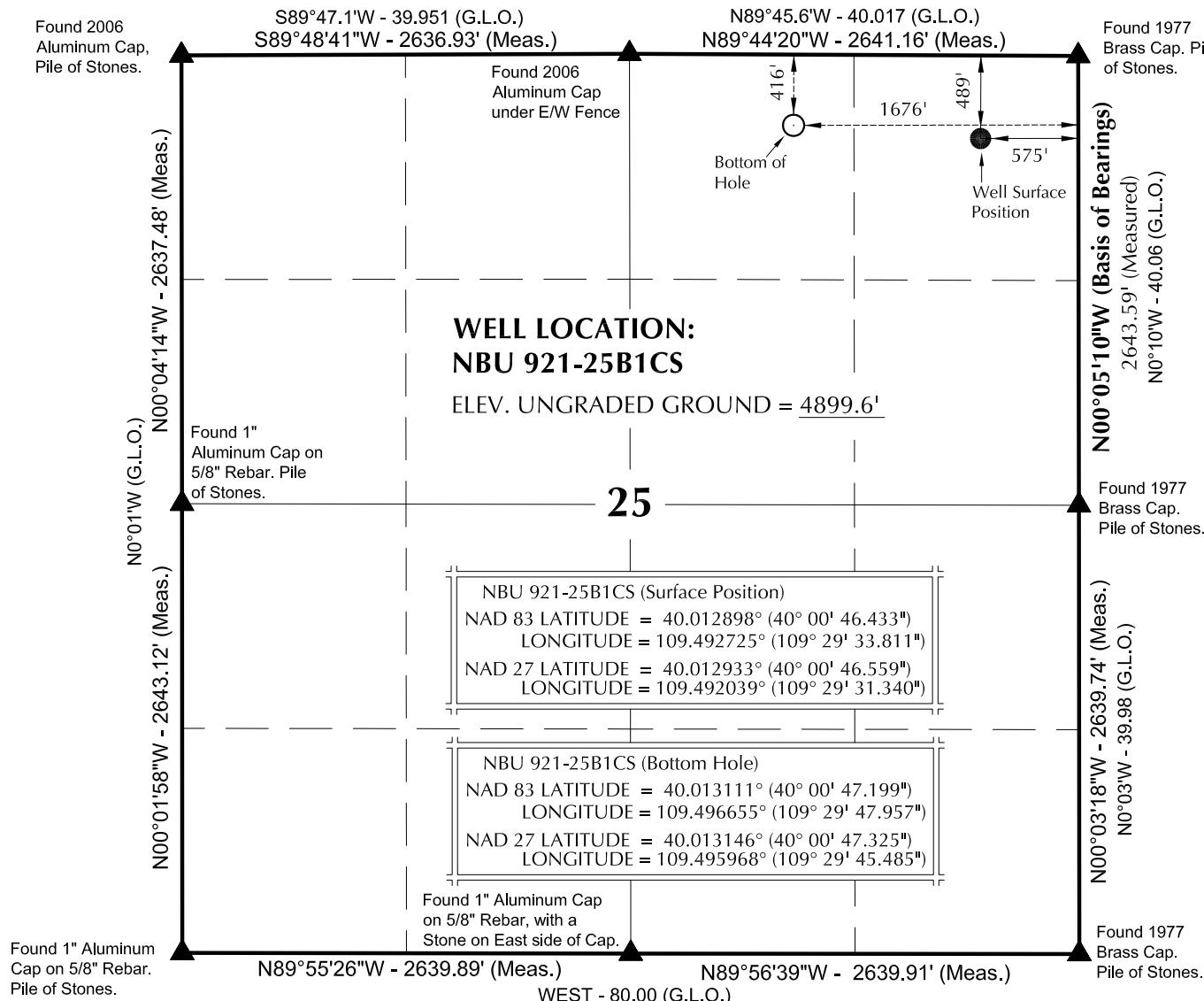
DATE: _____

EXHIBIT A
NBU 921-25B1CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

T9S, R21E, S.L.B.&M.

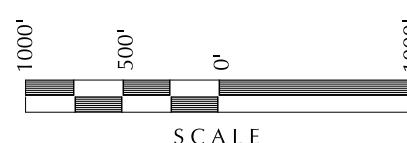
NOTES:

- ▲ = Section Corners Located
1. Well footages are measured at right angles to the Section Lines.
 2. G.L.O. distances are shown in feet or chains.
1 chain = 66 feet.
 3. The Bottom of hole bears N85°57'05"W 1103.66' from the Surface Position.
 4. Bearings are based on Global Positioning Satellite observations.
 5. Basis of elevation is Tri-Sta "Two Water" located in the NW $\frac{1}{4}$ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD: NBU 921-25A**NBU 921-25B1CS****WELL PLAT****416' FNL, 1676' FEL (Bottom Hole)****NW $\frac{1}{4}$ NE $\frac{1}{4}$ OF SECTION 25, T9S, R21E,
S.L.B.&M., UNTAH COUNTY, UTAH.**

CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

**SURVEYOR'S CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

John R. Slough
PROFESSIONAL LAND SURVEYOR
REGISTRATION NO. 6028691
STATE OF UTAH

No.6028691

JOHN R.

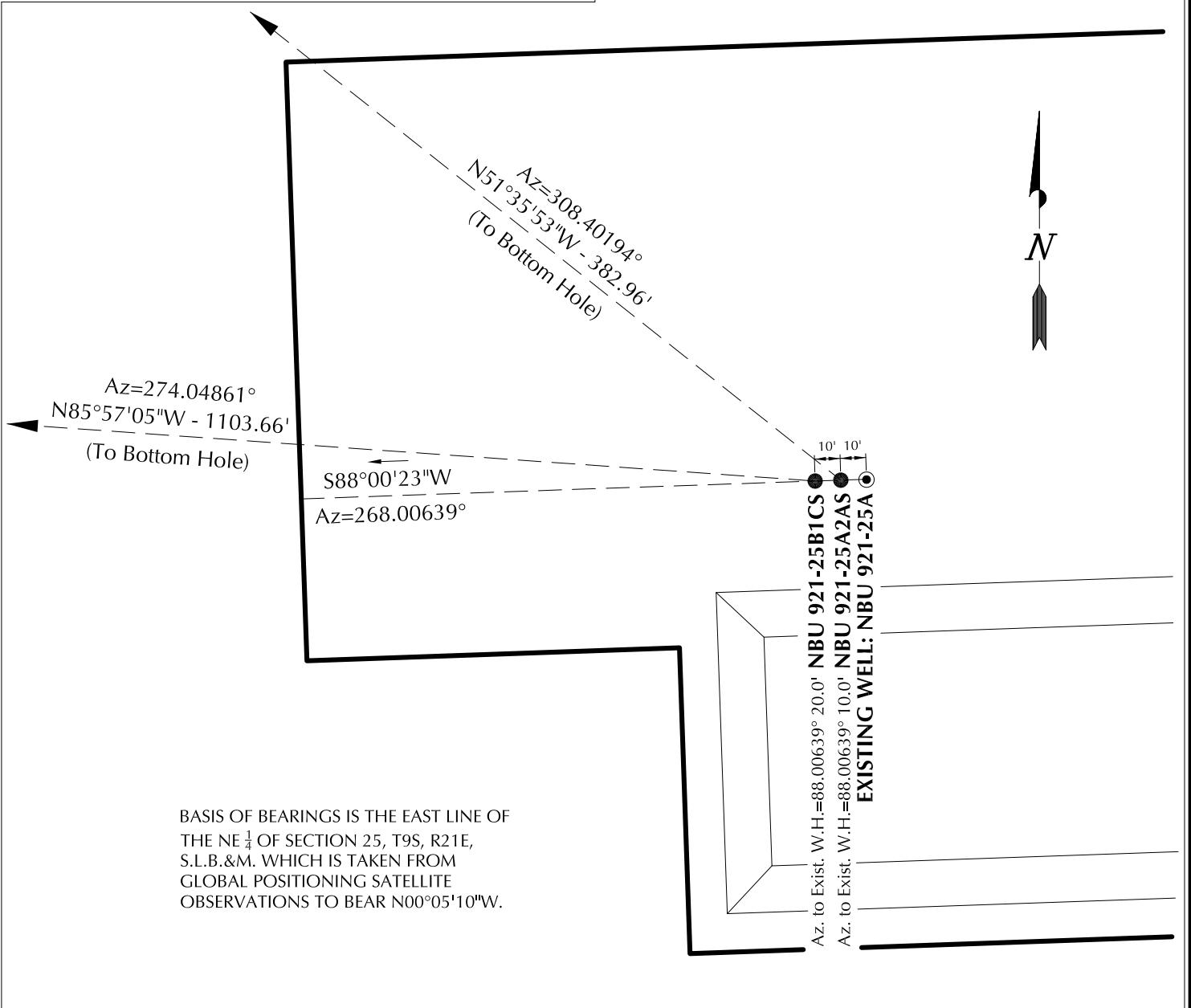
SLAUGH

TIMBERLINE ENGINEERING & LAND SURVEYING, INC.		(435) 789-1365
209 NORTH 300 WEST - VERNAL, UTAH 84078		
DATE SURVEYED: 06-04-10	SURVEYED BY: M.S.B.	SHEET NO:
DATE DRAWN: 06-10-10	DRAWN BY: E.M.S.	
SCALE: 1" = 1000'	Date Last Revised:	1 OF 14

WELL NAME	SURFACE POSITION				FOOTAGES	BOTTOM HOLE				
	NAD83		NAD27			LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES
NBU 921-25B1CS	40°00'46.433"	109°29'33.811"	40°00'46.559"	109°29'31.340"	489' FNL 575' FEL	40°00'47.199"	109°29'47.957"	40°00'47.325"	109°29'45.485"	416' FNL 1676' FEL
NBU 921-25A2AS	40°00'46.436"	109°29'33.683"	40°00'46.563"	109°29'31.212"	489' FNL 565' FEL	40°00'48.786"	109°29'37.540"	40°00'48.912"	109°29'35.069"	252' FNL 865' FEL
NBU 921-25A	40°00'46.438"	109°29'33.554"	40°00'46.565"	109°29'31.084"	488' FNL 555' FEL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 921-25B1CS	77.9'	-1,100.9'	NBU 921-25A2AS	237.9'	-300.1'



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-25A

WELL PAD INTERFERENCE PLAT
WELLS - NBU 921-25B1CS &
NBU 921-25A2AS
LOCATED IN SECTION 25, T9S, R21E,
S.L.B.&M., UNTAH COUNTY, UTAH.



CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE

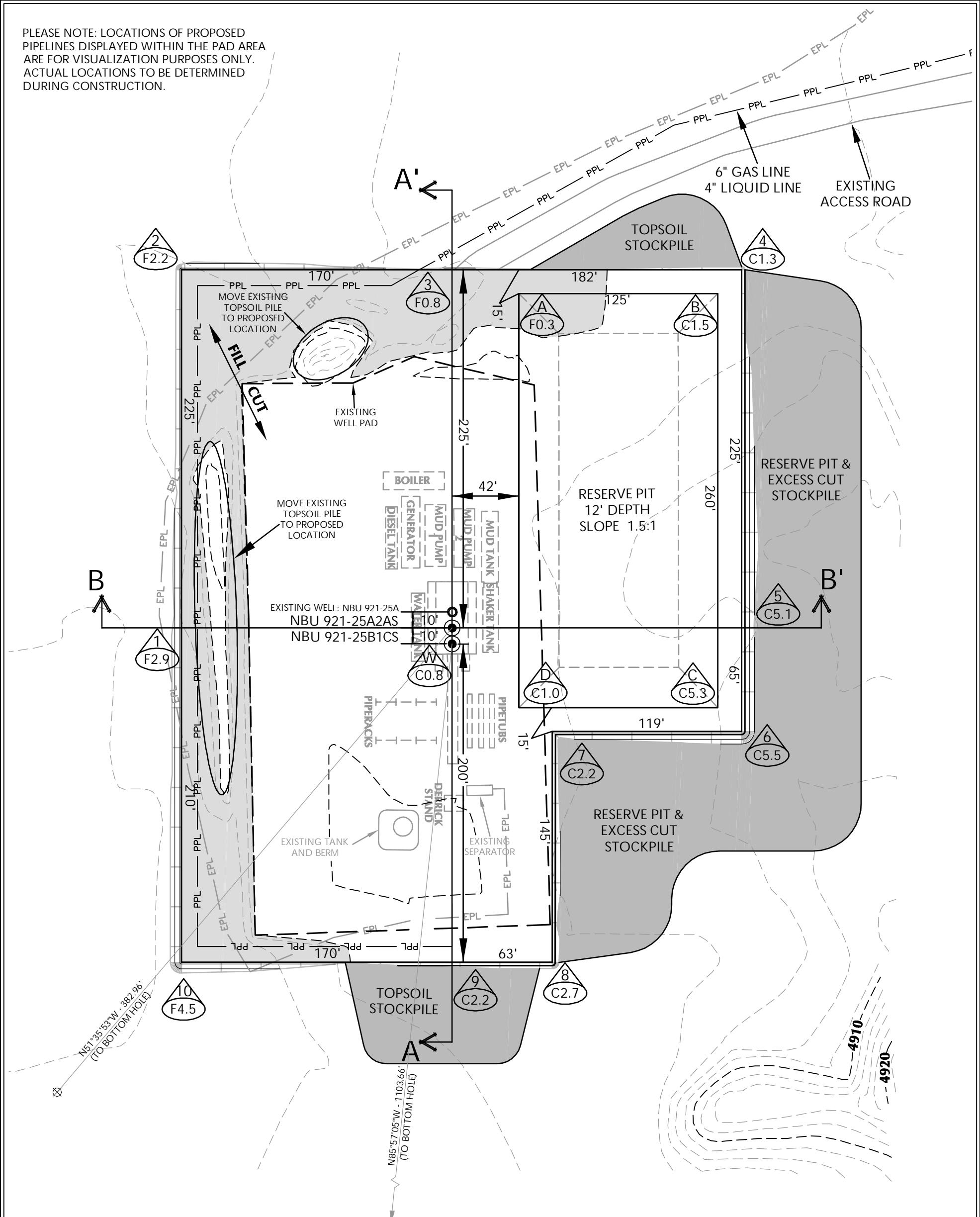
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

SHEET NO:
3
3 OF 14

DATE SURVEYED: 06-04-10	SURVEYED BY: M.S.B.
DATE DRAWN: 06-10-10	DRAWN BY: E.M.S.
SCALE: 1" = 60'	Date Last Revised:

PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.



WELL PAD - NBU 921-25A DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4899.5'
FINISHED GRADE ELEVATION = 4898.7'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.29 ACRES
TOTAL DAMAGE AREA = 6.07 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-25A

WELL PAD - LOCATION LAYOUT
NBU 921-25B1CS &
NBU 921-25A2AS
LOCATED IN SECTION 25, T9S, R21E,
S.L.B.&M., UNTAH COUNTY, UTAH



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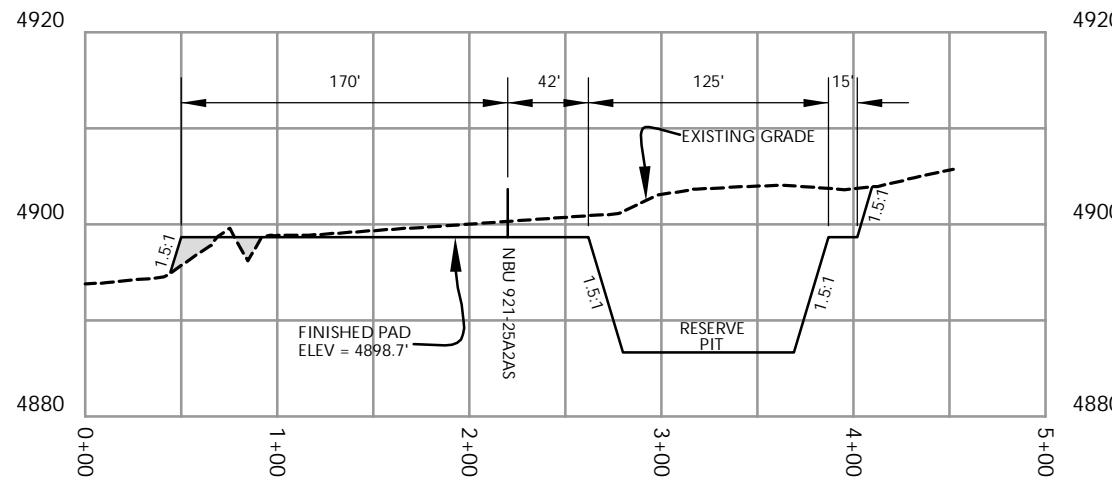
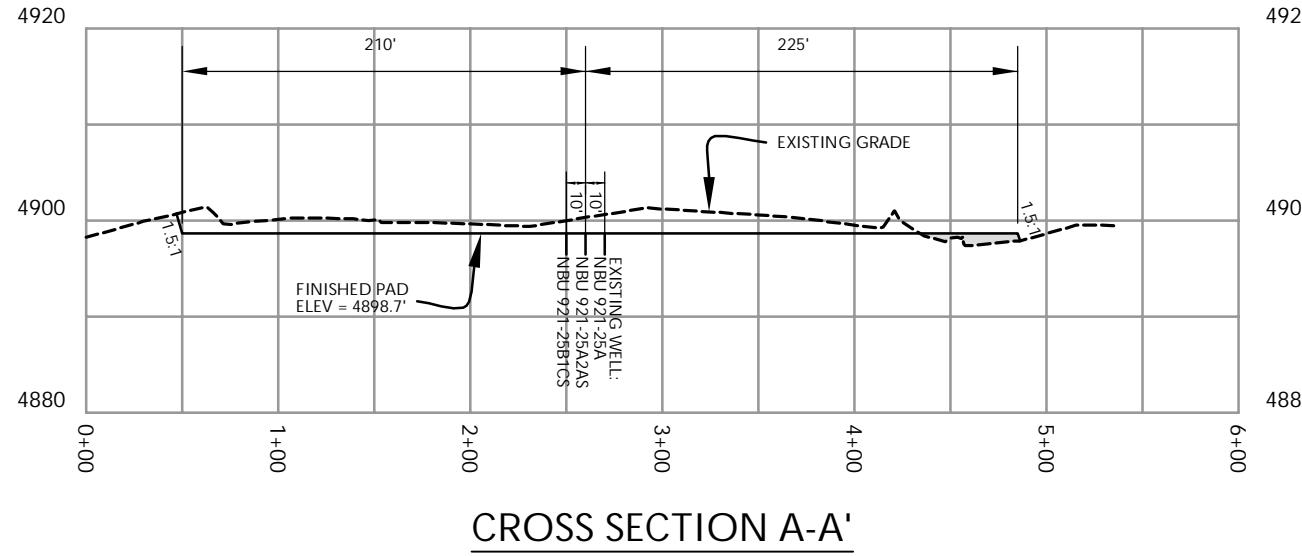
Scale: 1"=60' Date: 7/7/10 Sheet No:

WELL PAD LEGEND	
○	EXISTING WELL LOCATION
○	PROPOSED WELL LOCATION
○	PROPOSED BOTTOM HOLE LOCATION
- - -	EXISTING CONTOURS (2' INTERVAL)
- - -	PROPOSED CONTOURS (2' INTERVAL)
— PPL —	PROPOSED PIPELINE
— EPL —	EXISTING PIPELINE



HORIZONTAL 0 30 60 1" = 60'
2' CONTOURS

Revised: 4 4 OF 14



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209 NORTH 300 WEST - VERNAL, UTAH 84078

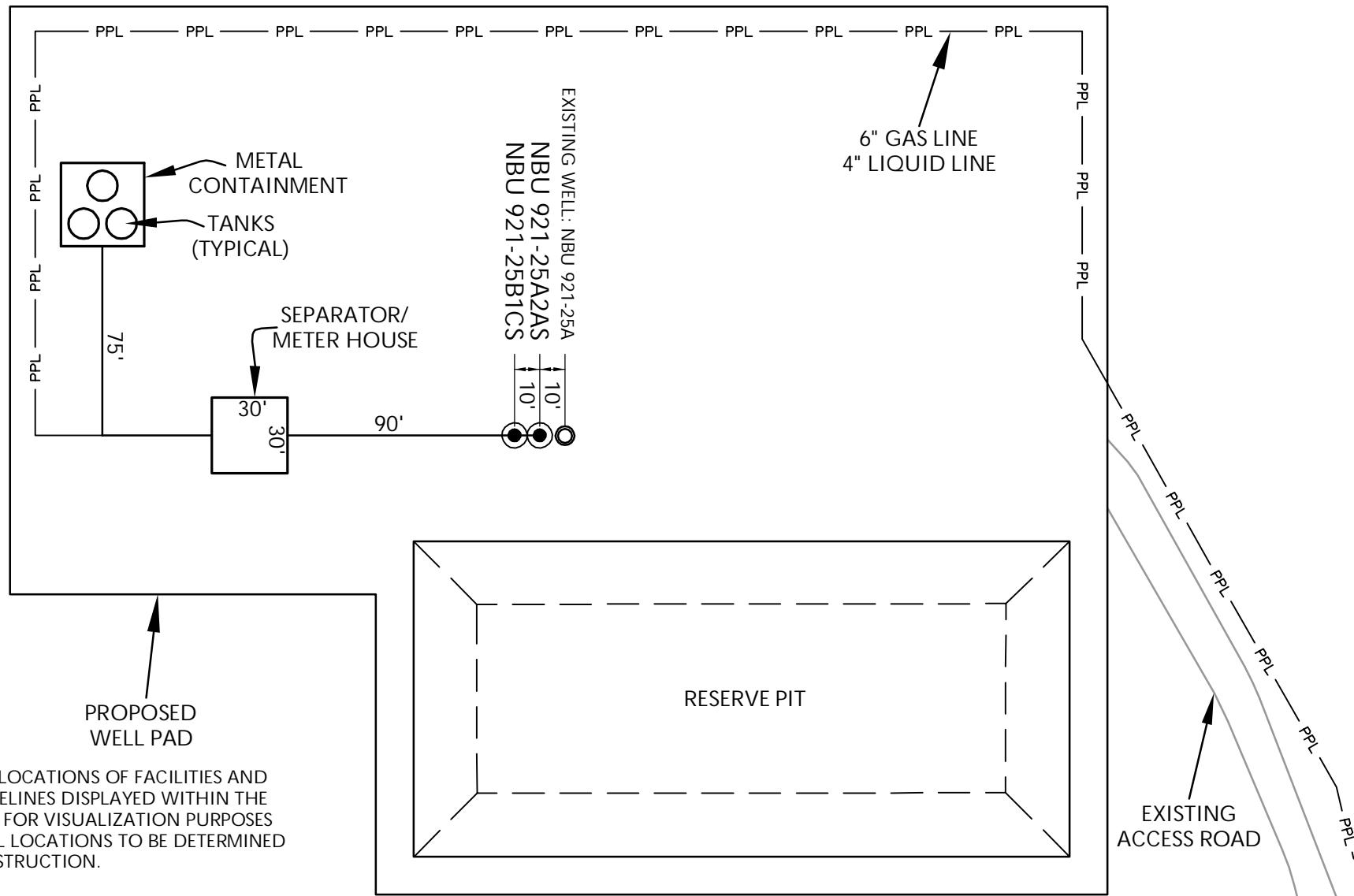
WELL PAD - NBU 921-25A

WELL PAD - CROSS SECTIONS
NBU 921-25B1CS &
NBLU 921-25A2AS

LOCATED IN SECTION 25, T9S, R21E,
S.L.B.&M., UNTAH COUNTY, UTAH

The figure shows two scale bars. The top bar, labeled "HORIZONTAL", has tick marks at 0, 50, and 100. The bottom bar, labeled "VERTICAL", has tick marks at 0, 10, and 20. Both bars have a label "1\" data-bbox="106 78 490 144" data-label="Text">" = 100' above them.

65	Scale: 1"=100'	Date: 7/7/10	SHEET NO:
	REVISED:		5 5 OF 14



PLEASE NOTE: LOCATIONS OF FACILITIES AND PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

Kerr-McGee Oil & Gas Onshore, LP

WELL PAD - NBU 921-25A

WELL PAD - FACILITIES DIAGRAM
NBU 921-25B1CS &
NBU 921-25A2AS
LOCATED IN SECTION 25, T9S, R21E
S.I. B.&M., UNTAH COUNTY, UTAH



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WELL PAD LEGEND

- EXISTING WELL LOCATION
● PROPOSED WELL LOCATION
— PPL — PROPOSED PIPELINE
— EPL — EXISTING PIPELINE

HORIZONTAL 0' 30' 60' 1" = 60'

TIMBERLINE (435) 789-13
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=60'	Date: 7/7/10	SHEET NO:
REVISED:		6 OF 14

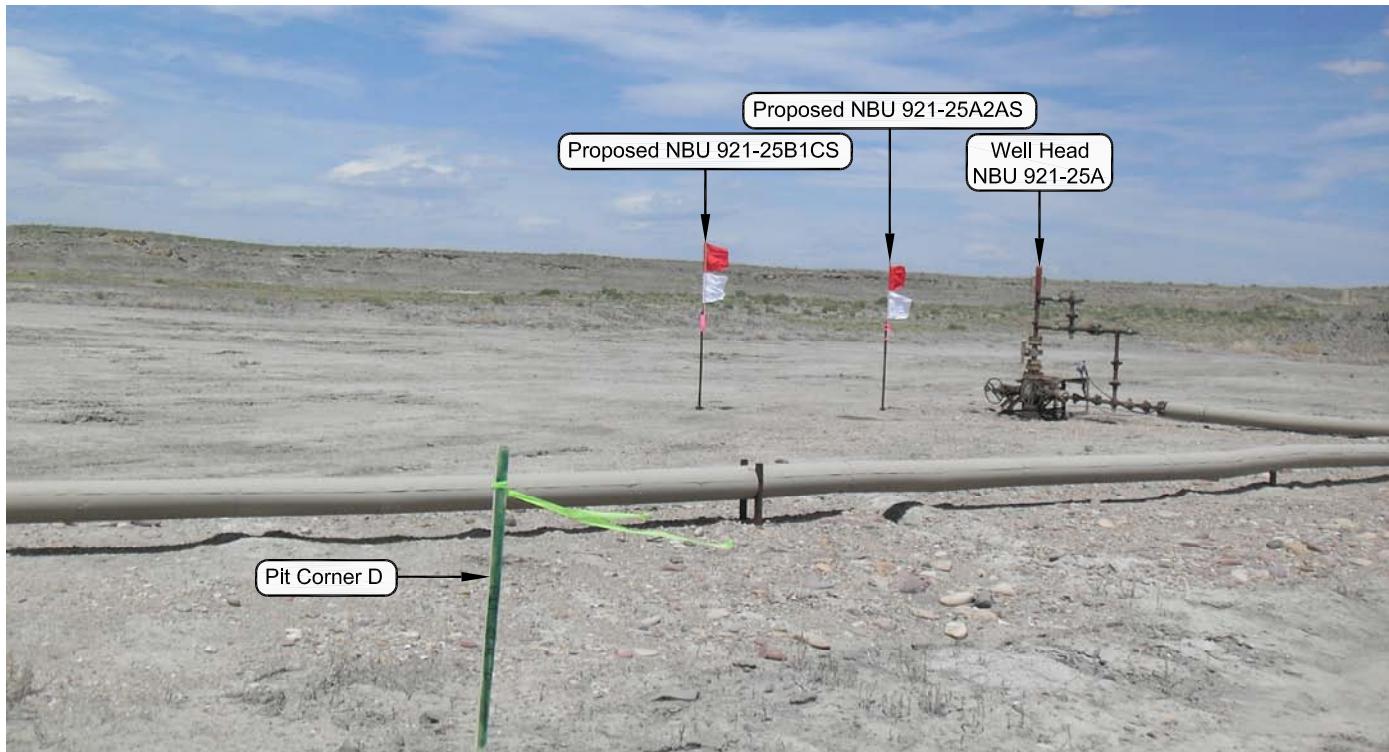


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: NORTHWESTERLY

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-25A

LOCATION PHOTOS

NBU 921-25B1CS & NBU 921-25A2AS
LOCATED IN SECTION 25, T9S, R21E,
S.L.B.&M., UNTAH COUNTY, UTAH.

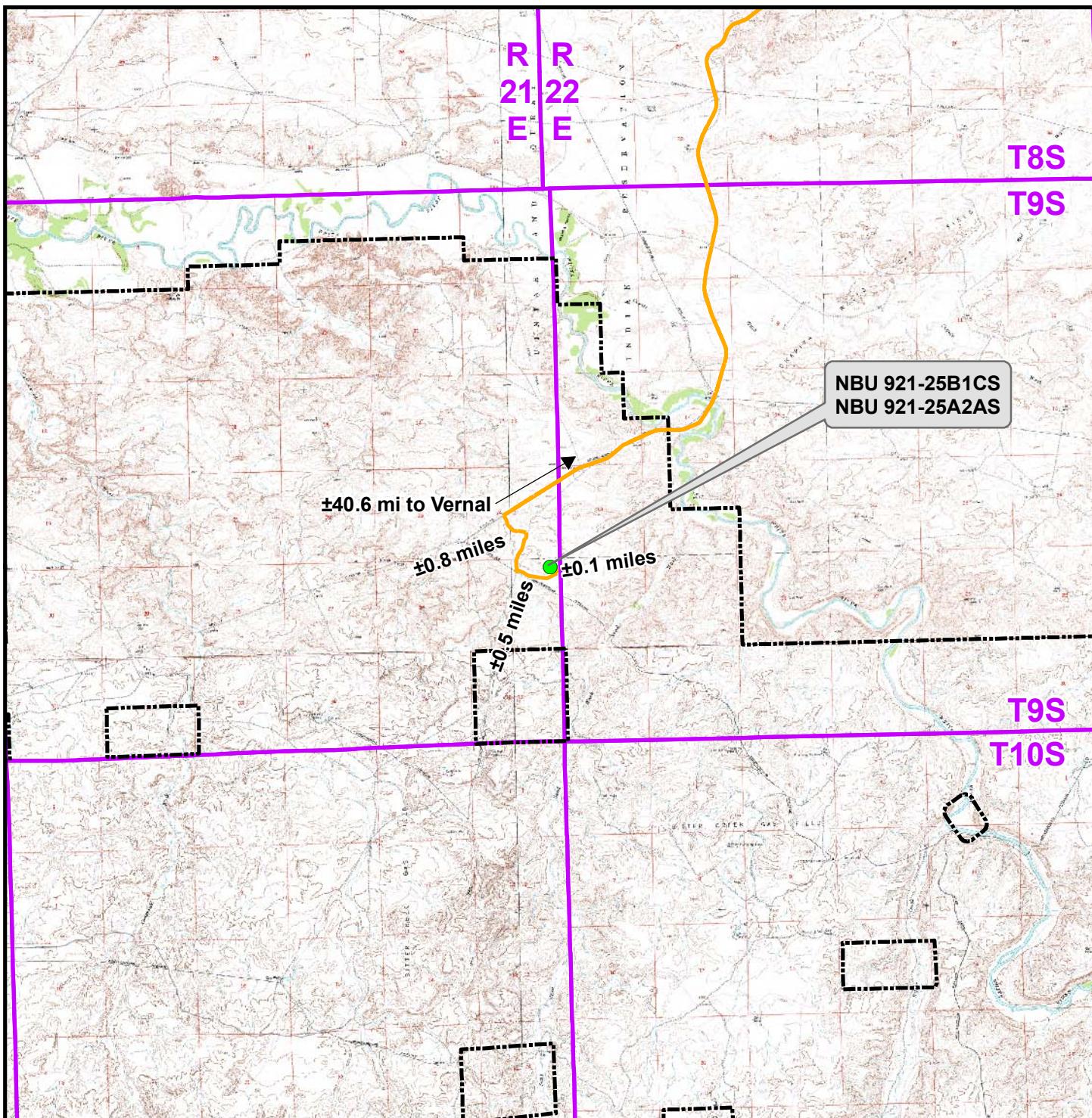


CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE

(435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 06-04-10	PHOTOS TAKEN BY: M.S.B.	SHEET NO:
DATE DRAWN: 06-10-10	DRAWN BY: E.M.S.	
Date Last Revised:		7 OF 14



Legend

- Proposed Well Location
- Natural Buttes Unit Boundary
- Access Route - Proposed

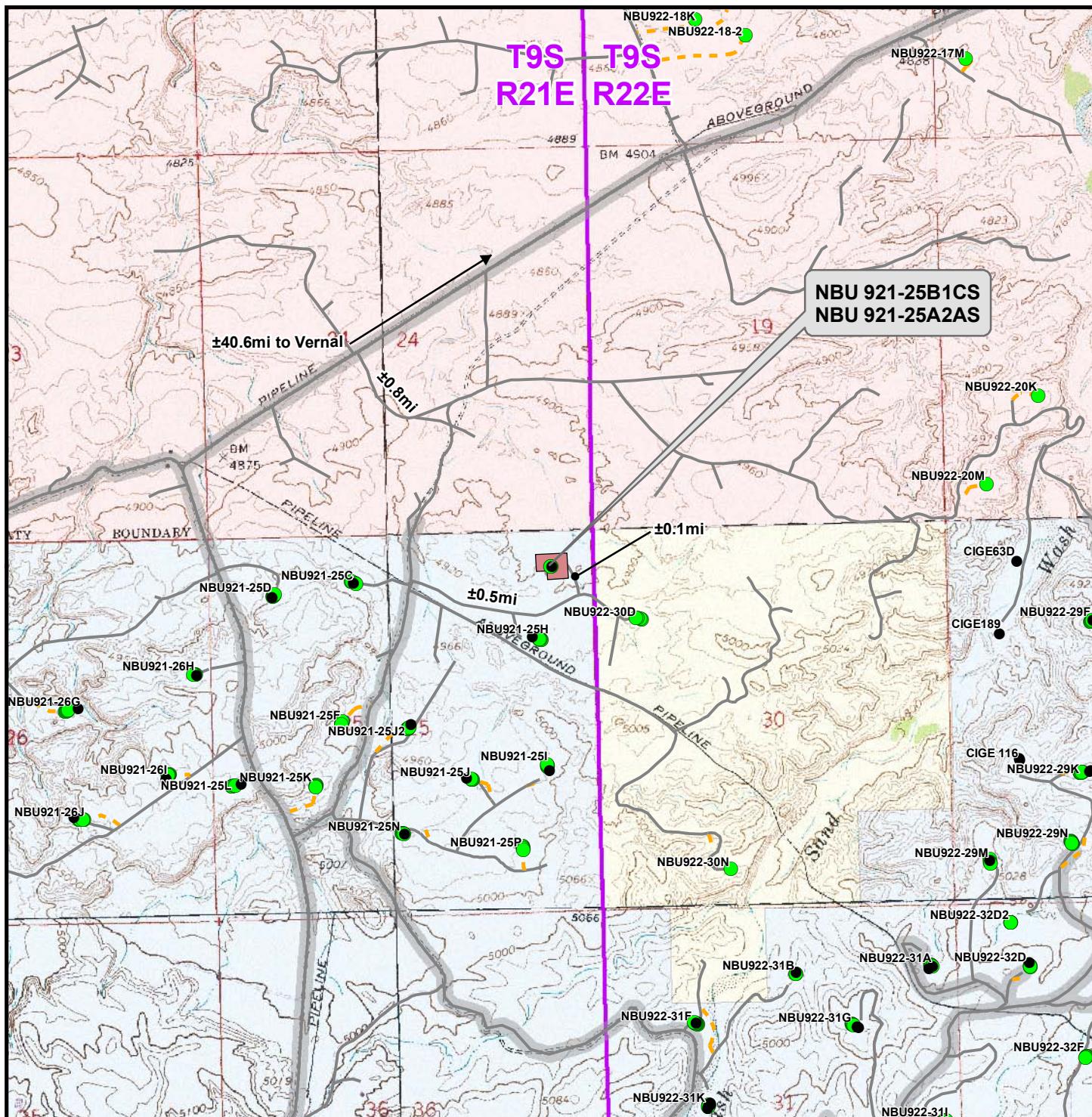
Distance From Well Pad - NBU 921-25A To Unit Boundary: $\pm 4,795\text{ft}$

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-25A
TOPO A
NBU 921-25B1CS &
NBU 921-25A2AS
LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., UNTAH COUNTY, UTAH



Scale: 1:100,000 NAD83 USP Central Sheet No:
Drawn: JFE Date: 7 July 2010 8
Revised: Date:
8 of 14

**Legend**

- | | | | | |
|-------------------|------------|-------------------|---------------|----------------------------------|
| ● Well - Proposed | ■ Well Pad | — Road - Proposed | ■ County Road | Total Proposed Road Length: ±0ft |
| ● Well - Existing | | — Road - Existing | | |
| | | | | |
| | | | | |

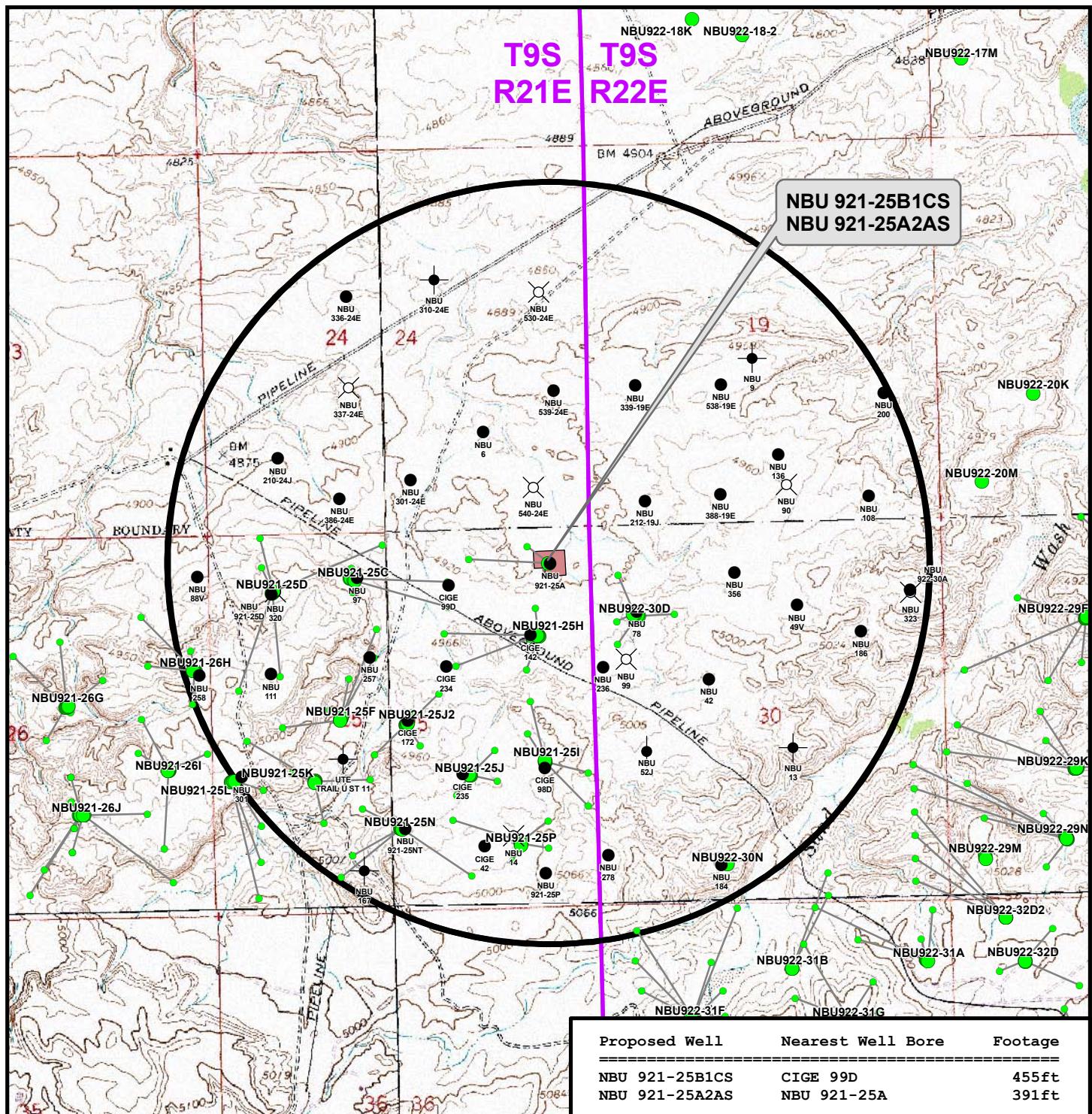
Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-25A
TOPO B
NBU 921-25B1CS &
NBU 921-25A2AS
LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., UNTAH COUNTY, UTAH



Scale: 1" = 2,000ft | NAD83 USP Central
Drawn: JFE Date: 7 July 2010
Revised: Revised Date:
Date:

Sheet No:
9

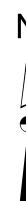
**Legend**

Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

- Well - Proposed
- Well Pad
- Bottom Hole - Proposed
- Well - 1 Mile Radius
- Well Path

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

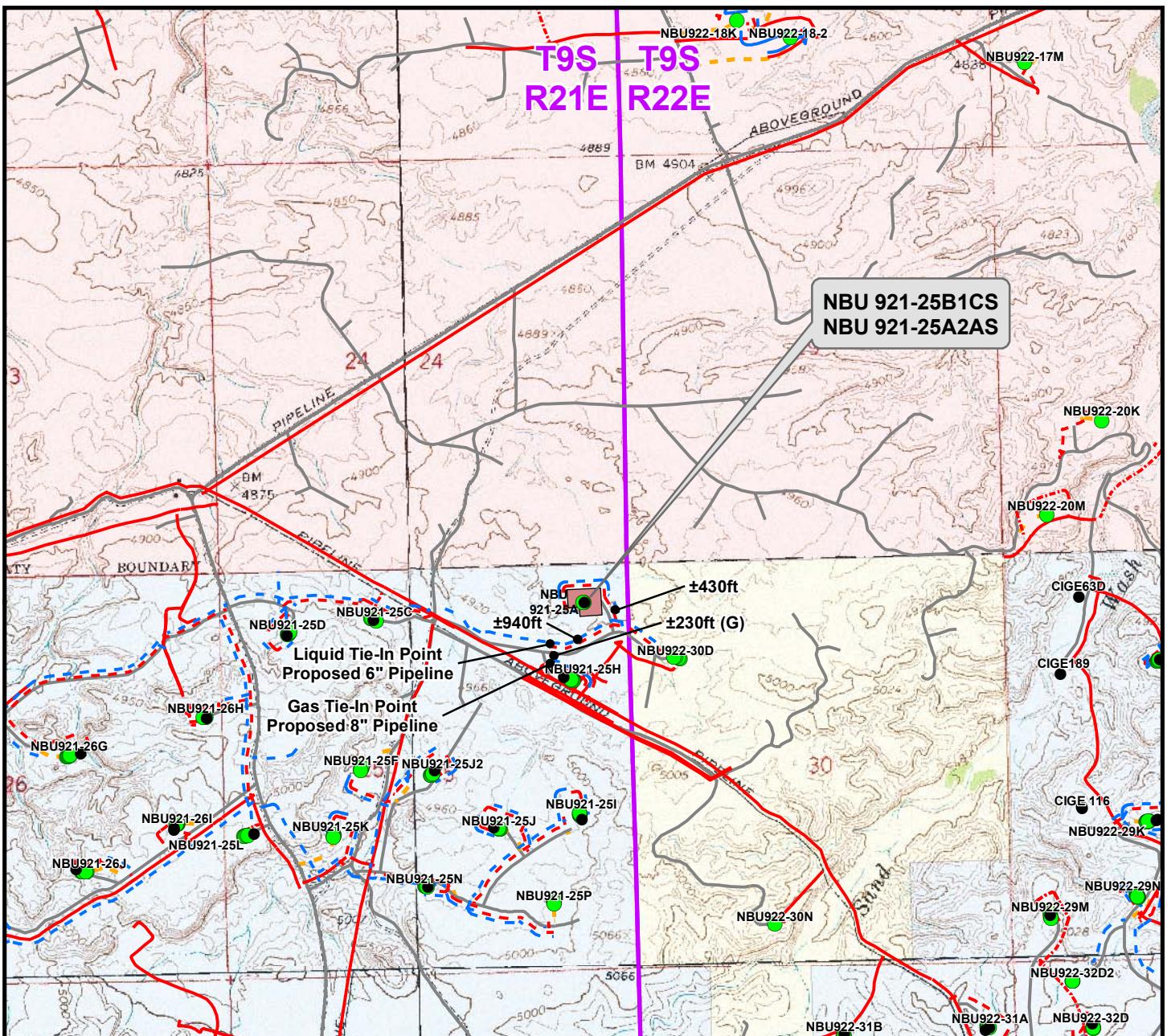
WELL PAD - NBU 921-25A
TOPO C
NBU 921-25B1CS &
NBU 921-25A2AS
LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., UNTAH COUNTY, UTAH



Scale: 1" = 2,000ft | NAD83 USP Central
Drawn: JFE Date: 7 July 2010
Revised: Date:
Sheet No:

10 10 of 14

- Producing
- Temporarily-Abandoned
- Active
- Shut-In
- Spudded (Drilling commenced: Not yet completed)
- Approved permit (APD); not yet spudded
- New Permit (Not yet approved or drilled)
- Inactive
- Plugged and Abandoned
- Location Abandoned
- Dry hole marker, buried
- Returned APD (Unapproved)
- ✖ Drilling Operations Suspended



Proposed Liquid Pipeline	Length
=====	
Proposed 4" (Meter House to Edge of Pad)	+810ft
Proposed 4" (Edge of Pad to 25H Intersection)	+1,370ft
 TOTAL PROPOSED LIQUID PIPELINE =	 ± 2,180ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±810ft
Proposed 6" (Edge of Pad to 30D Intersection)	±430ft
Proposed 8" (30D Intersection to 25H Intersection)	±1,170ft
TOTAL PROPOSED GAS PIPELINE =	±2,410ft

Legend

- Well - Proposed — - - Gas Pipeline - Proposed - - - Liquid Pipeline - Proposed — - Road - Proposed Bureau of Land Management
● Well - Existing - - - - Gas Pipeline - To Be Upgraded - - - - Liquid Pipeline - To Be Upgraded — Road - Existing Indian Reservation
 Well Pad — Gas Pipeline - Existing — Liquid Pipeline - Existing State

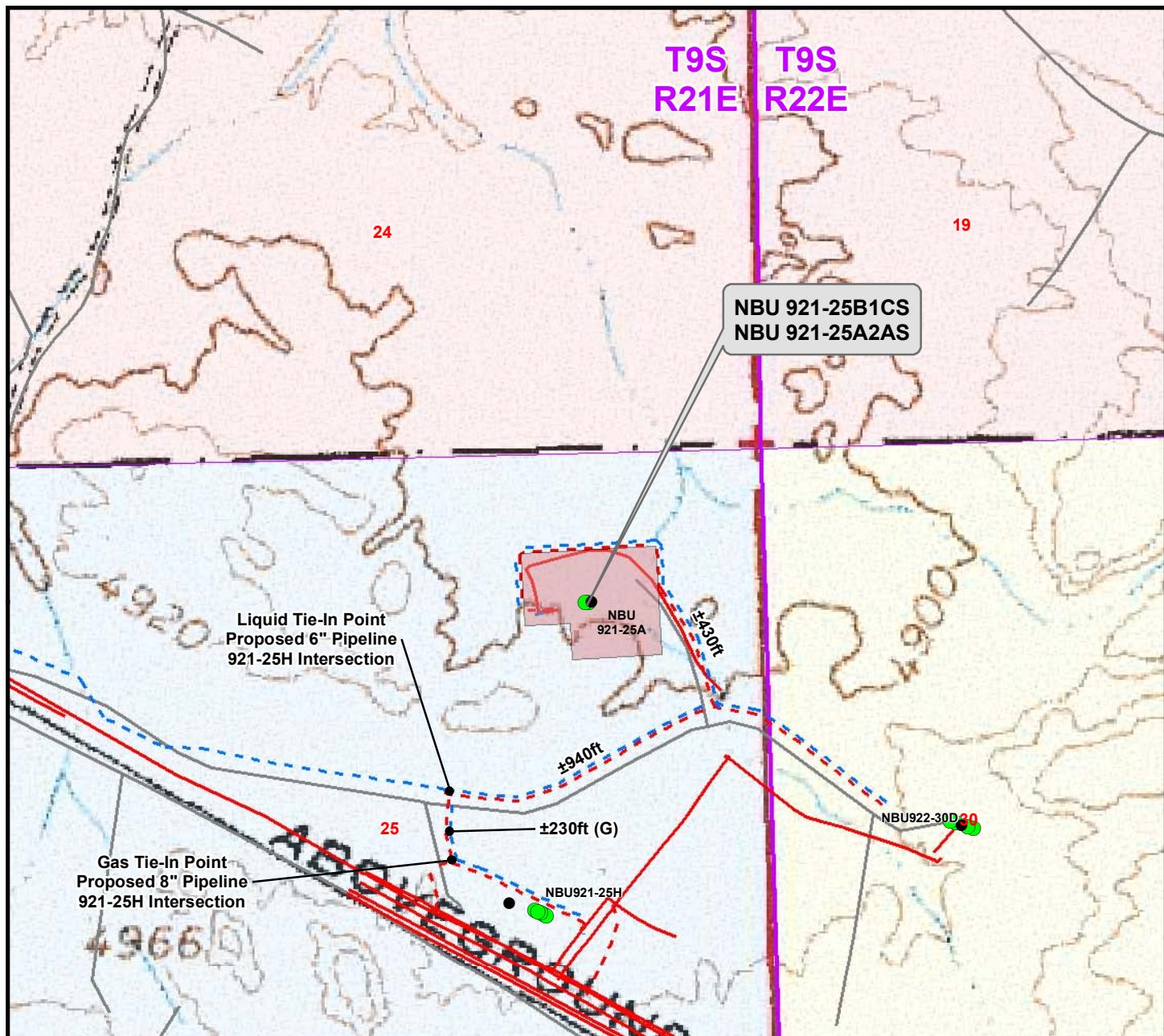
Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202



NBU 921-23A2AS
LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., UNTAH COUNTY, UTAH

Scale: 1" = 2,000ft	NAD83 USP Central
Drawn: TL	Date: 7 July 2010
Revised:	Date:

Sheet No:



Proposed Liquid Pipeline	Length
Proposed 4" (Meter House to Edge of Pad)	±810ft
Proposed 4" (Edge of Pad to 25H Intersection)	±1,370ft
TOTAL PROPOSED LIQUID PIPELINE =	± 2,180ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±810ft
Proposed 6" (Edge of Pad to 30D Intersection)	±430ft
Proposed 8" (30D Intersection to 25H Intersection)	±1,170ft
TOTAL PROPOSED GAS PIPELINE =	±2,410ft

Legend

- | | | | | |
|-------------------|---------------------------------|------------------------------------|-------------------|---------------------------|
| ● Well - Proposed | — Gas Pipeline - Proposed | — Liquid Pipeline - Proposed | — Road - Proposed | Bureau of Land Management |
| ● Well - Existing | — Gas Pipeline - To Be Upgraded | — Liquid Pipeline - To Be Upgraded | — Road - Existing | Indian Reservation |
| ■ Well Pad | — Gas Pipeline - Existing | — Liquid Pipeline - Existing | ■ State | ■ Private |

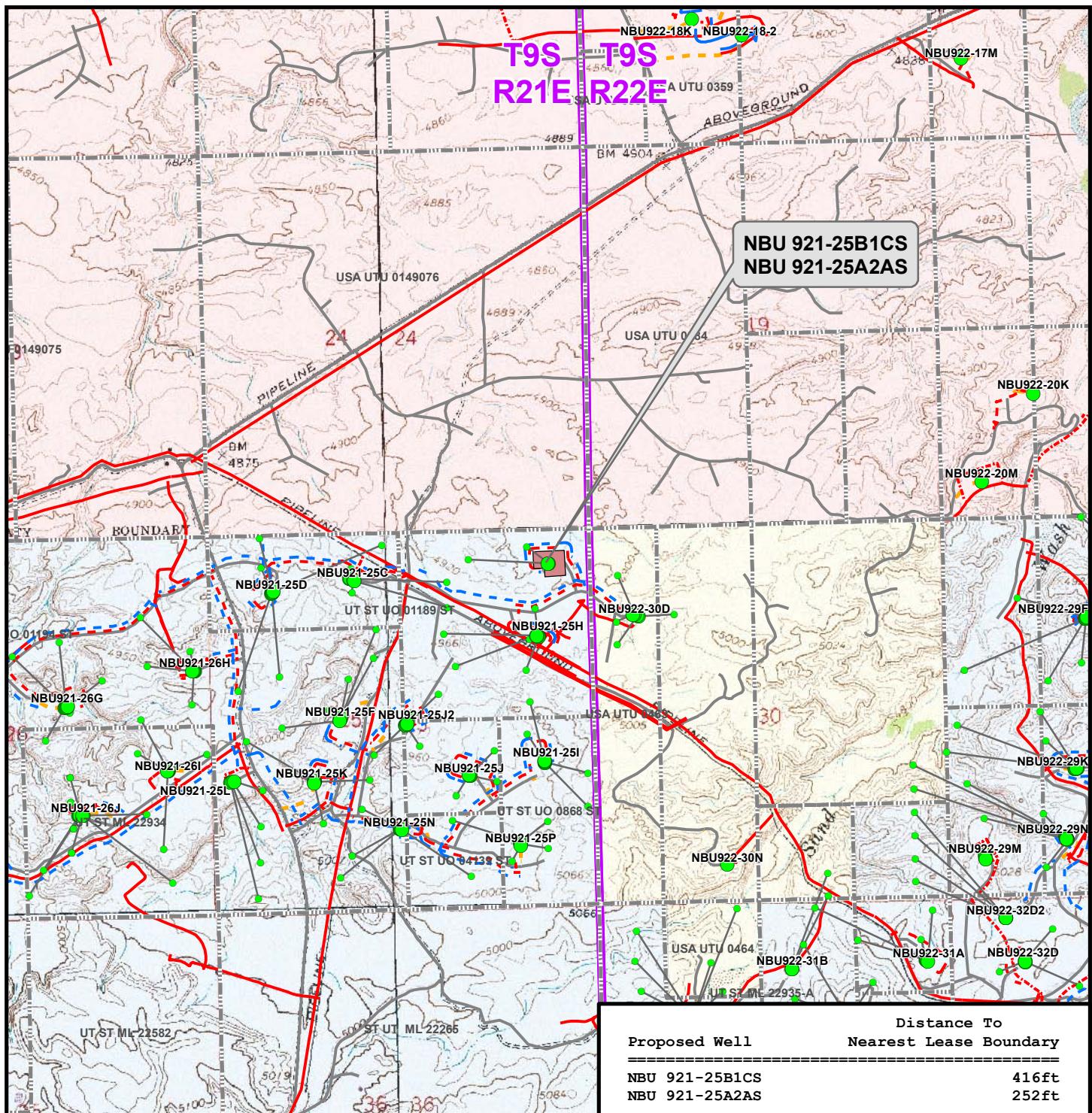
Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-25A
TOPO D2 (PAD & PIPELINE DETAIL)
NBU 921-25B1CS &
NBU 921-25A2AS
LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., UNTAH COUNTY, UTAH

609
CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 500ft NAD83 USP Central Sheet No:
Drawn: TL Date: 7 July 2010 12
Revised: Date:
12 of 14

**Legend**

● Well - Proposed	■ Well Pad	- - Gas Pipeline - Proposed	- - - Liquid Pipeline - Proposed	- - - Road - Proposed	■ Bureau of Land Management
● Bottom Hole - Proposed	■ Lease Boundary	- - - Gas Pipeline - To Be Upgraded	- - - Liquid Pipeline - To Be Upgraded	- - Road - Existing	■ Indian Reservation
— Well Path		— Gas Pipeline - Existing	— Liquid Pipeline - Existing	— Road - Existing	■ State
					■ Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-25A**TOPO E**

**NBU 921-25B1CS &
NBU 921-25A2AS**

**LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., UNTAH COUNTY, UTAH**



Scale: 1" = 2,000ft NAD83 USP Central
Drawn: TL Date: 7 July 2010
Revised: Date:

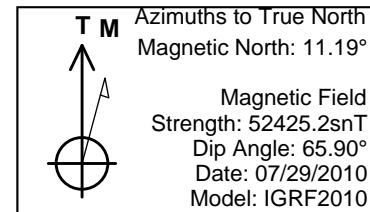
Sheet No:
13 13 of 14

Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 921-25A
WELLS – NBU 921-25B1CS &
NBU 921-25A2AS
Section 25, T9S, R21E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 17.1 miles to a service road to the southeast. Exit left and proceed in a southeasterly then easterly then southerly direction along service road approximately 0.8 miles to a second service road to the southeast. Exit left and proceed in a southeasterly direction along second service road approximately 0.5 miles to an existing access road to the northwest. Exit left and proceed in a northwesterly direction along the existing access road approximately 0.1 miles to the proposed well location.

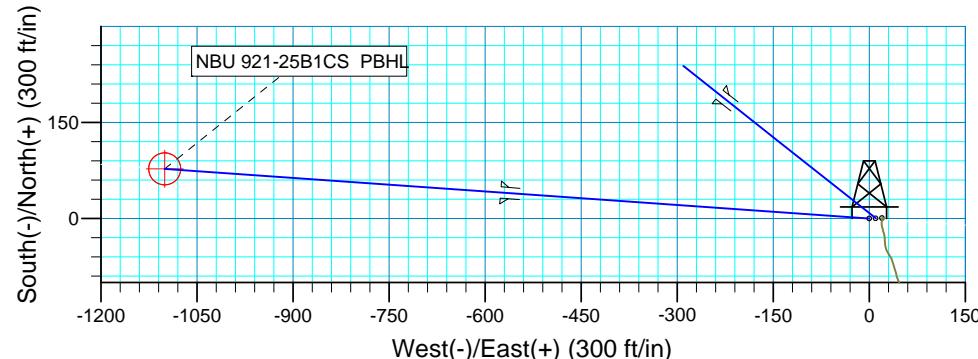
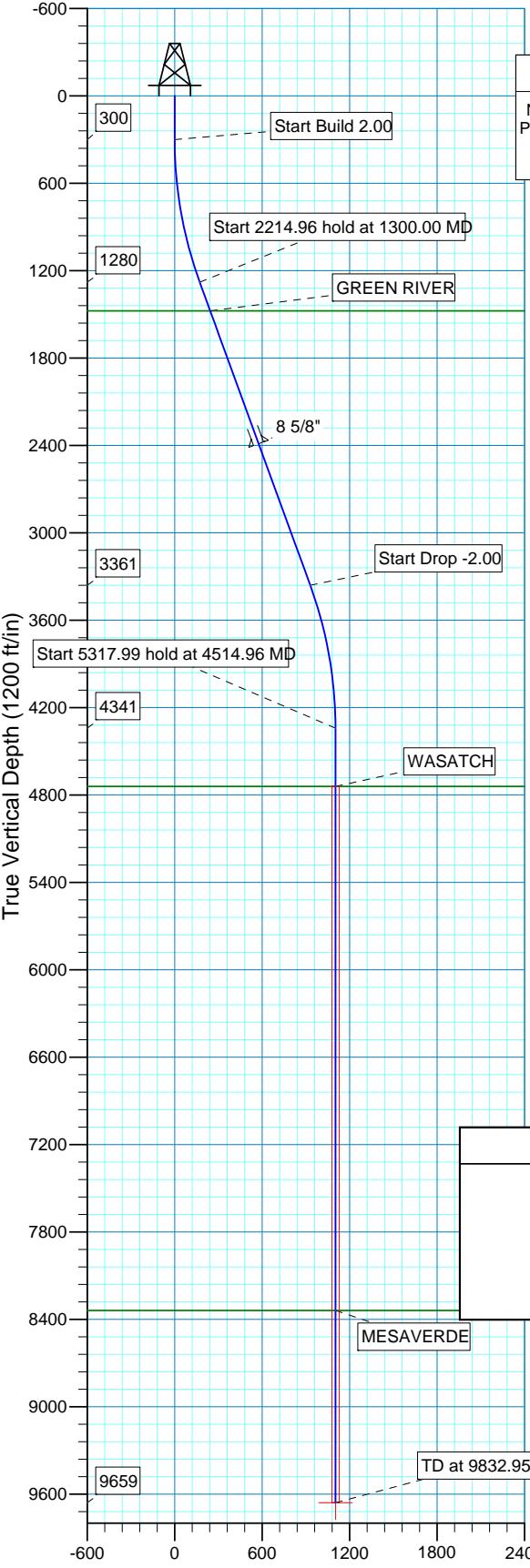
Total distance from Vernal, Utah to the proposed well location is approximately 42.0 miles in a southerly direction.

Kerr McGee Oil and Gas Onshore LP



WELL DETAILS: NBU 921-25B1CS

+N/S	+E/W	Northing	Easting	Latitude	Longitude
0.00	0.00	14534326.80	2062662.54	40° 0' 46.559 N	109° 29' 31.340 W





Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 921-25A Pad
NBU 921-25B1CS
OH

Plan: Plan #1

Standard Planning Report

29 July, 2010



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 921-25B1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4899' & RKB 14' @ 4913.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4899' & RKB 14' @ 4913.00ft (ASSUMED)
Site:	NBU 921-25A Pad	North Reference:	True
Well:	NBU 921-25B1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Uintah County, UT UTM12	
Map System:	Universal Transverse Mercator (US Survey Fee	System Datum: Mean Sea Level

Site	NBU 921-25A Pad, SEC 25 T9S R21E				
Site Position:		Northing: 14,534,327.33ft	Latitude: 40° 0' 46.562 N		
From:	Lat/Long	Easting: 2,062,672.61ft	Longitude: 109° 29' 31.211 W		
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	0.97 °

Well	NBU 921-25B1CS, 489' FNL 565' FEL				
Well Position	+N/S +E/W	0.00 ft 0.00 ft	Northing: 14,534,326.80 ft	Latitude: 40° 0' 46.559 N	
			Easting: 2,062,662.54 ft	Longitude: 109° 29' 31.340 W	
Position Uncertainty		0.00 ft	Wellhead Elevation: ft	Ground Level:	4,899.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	07/29/2010	11.19	65.90	52,425

Design	Plan #1				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:		Depth From (TVD) (ft)	+N/S (ft)	+E/W (ft)	Direction (°)
		0.00	0.00	0.00	274.03

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	20.00	274.03	1,279.82	12.15	-172.34	2.00	2.00	0.00	274.03	
3,514.96	20.00	274.03	3,361.20	65.45	-928.02	0.00	0.00	0.00	0.00	0.00
4,514.96	0.00	0.00	4,341.01	77.60	-1,100.36	2.00	-2.00	0.00	180.00	
9,832.95	0.00	0.00	9,659.00	77.60	-1,100.36	0.00	0.00	0.00	0.00	NBU 921-25B1CS

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 921-25B1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4899' & RKB 14' @ 4913.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4899' & RKB 14' @ 4913.00ft (ASSUMED)
Site:	NBU 921-25A Pad	North Reference:	True
Well:	NBU 921-25B1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	274.03	399.98	0.12	-1.74	1.75	2.00	2.00	0.00
500.00	4.00	274.03	499.84	0.49	-6.96	6.98	2.00	2.00	0.00
600.00	6.00	274.03	599.45	1.10	-15.65	15.69	2.00	2.00	0.00
700.00	8.00	274.03	698.70	1.96	-27.81	27.88	2.00	2.00	0.00
800.00	10.00	274.03	797.47	3.06	-43.41	43.52	2.00	2.00	0.00
900.00	12.00	274.03	895.62	4.40	-62.45	62.60	2.00	2.00	0.00
1,000.00	14.00	274.03	993.06	5.99	-84.89	85.10	2.00	2.00	0.00
1,100.00	16.00	274.03	1,089.64	7.81	-110.70	110.98	2.00	2.00	0.00
1,200.00	18.00	274.03	1,185.27	9.86	-139.87	140.21	2.00	2.00	0.00
1,300.00	20.00	274.03	1,279.82	12.15	-172.34	172.77	2.00	2.00	0.00
Start 2214.96 hold at 1300.00 MD									
1,400.00	20.00	274.03	1,373.78	14.56	-206.46	206.97	0.00	0.00	0.00
1,500.00	20.00	274.03	1,467.75	16.97	-240.57	241.17	0.00	0.00	0.00
1,508.78	20.00	274.03	1,476.00	17.18	-243.57	244.17	0.00	0.00	0.00
GREEN RIVER									
1,600.00	20.00	274.03	1,561.72	19.37	-274.69	275.37	0.00	0.00	0.00
1,700.00	20.00	274.03	1,655.69	21.78	-308.81	309.58	0.00	0.00	0.00
1,800.00	20.00	274.03	1,749.66	24.18	-342.93	343.78	0.00	0.00	0.00
1,900.00	20.00	274.03	1,843.63	26.59	-377.04	377.98	0.00	0.00	0.00
2,000.00	20.00	274.03	1,937.60	29.00	-411.16	412.18	0.00	0.00	0.00
2,100.00	20.00	274.03	2,031.57	31.40	-445.28	446.38	0.00	0.00	0.00
2,200.00	20.00	274.03	2,125.54	33.81	-479.40	480.59	0.00	0.00	0.00
2,300.00	20.00	274.03	2,219.51	36.21	-513.51	514.79	0.00	0.00	0.00
2,400.00	20.00	274.03	2,313.48	38.62	-547.63	548.99	0.00	0.00	0.00
2,481.43	20.00	274.03	2,390.00	40.58	-575.41	576.84	0.00	0.00	0.00
8 5/8"									
2,500.00	20.00	274.03	2,407.45	41.03	-581.75	583.19	0.00	0.00	0.00
2,600.00	20.00	274.03	2,501.42	43.43	-615.86	617.39	0.00	0.00	0.00
2,700.00	20.00	274.03	2,595.39	45.84	-649.98	651.60	0.00	0.00	0.00
2,800.00	20.00	274.03	2,689.35	48.25	-684.10	685.80	0.00	0.00	0.00
2,900.00	20.00	274.03	2,783.32	50.65	-718.22	720.00	0.00	0.00	0.00
3,000.00	20.00	274.03	2,877.29	53.06	-752.33	754.20	0.00	0.00	0.00
3,100.00	20.00	274.03	2,971.26	55.46	-786.45	788.40	0.00	0.00	0.00
3,200.00	20.00	274.03	3,065.23	57.87	-820.57	822.61	0.00	0.00	0.00
3,300.00	20.00	274.03	3,159.20	60.28	-854.69	856.81	0.00	0.00	0.00
3,400.00	20.00	274.03	3,253.17	62.68	-888.80	891.01	0.00	0.00	0.00
3,500.00	20.00	274.03	3,347.14	65.09	-922.92	925.21	0.00	0.00	0.00
3,514.96	20.00	274.03	3,361.20	65.45	-928.02	930.33	0.00	0.00	0.00
Start Drop -2.00									
3,600.00	18.30	274.03	3,441.53	67.41	-955.85	958.22	2.00	-2.00	0.00
3,700.00	16.30	274.03	3,537.00	69.50	-985.51	987.96	2.00	-2.00	0.00
3,800.00	14.30	274.03	3,633.45	71.36	-1,011.83	1,014.34	2.00	-2.00	0.00
3,900.00	12.30	274.03	3,730.76	72.98	-1,034.78	1,037.35	2.00	-2.00	0.00
4,000.00	10.30	274.03	3,828.82	74.35	-1,054.32	1,056.94	2.00	-2.00	0.00
4,100.00	8.30	274.03	3,927.50	75.49	-1,070.44	1,073.10	2.00	-2.00	0.00
4,200.00	6.30	274.03	4,026.69	76.39	-1,083.11	1,085.80	2.00	-2.00	0.00
4,300.00	4.30	274.03	4,126.25	77.03	-1,092.32	1,095.04	2.00	-2.00	0.00
4,400.00	2.30	274.03	4,226.08	77.44	-1,098.06	1,100.79	2.00	-2.00	0.00

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 921-25B1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4899' & RKB 14' @ 4913.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4899' & RKB 14' @ 4913.00ft (ASSUMED)
Site:	NBU 921-25A Pad	North Reference:	True
Well:	NBU 921-25B1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,500.00	0.30	274.03	4,326.05	77.60	-1,100.33	1,103.06	2.00	-2.00	0.00
4,514.96	0.00	0.00	4,341.01	77.60	-1,100.36	1,103.10	2.00	-2.00	0.00
Start 5317.99 hold at 4514.96 MD									
4,600.00	0.00	0.00	4,426.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
4,700.00	0.00	0.00	4,526.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
4,800.00	0.00	0.00	4,626.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
4,900.00	0.00	0.00	4,726.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
4,915.95	0.00	0.00	4,742.00	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
WASATCH									
5,000.00	0.00	0.00	4,826.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
5,100.00	0.00	0.00	4,926.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
5,200.00	0.00	0.00	5,026.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
5,300.00	0.00	0.00	5,126.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
5,400.00	0.00	0.00	5,226.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
5,500.00	0.00	0.00	5,326.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
5,600.00	0.00	0.00	5,426.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
5,700.00	0.00	0.00	5,526.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
5,800.00	0.00	0.00	5,626.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
5,900.00	0.00	0.00	5,726.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
6,000.00	0.00	0.00	5,826.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
6,100.00	0.00	0.00	5,926.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
6,200.00	0.00	0.00	6,026.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
6,300.00	0.00	0.00	6,126.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
6,400.00	0.00	0.00	6,226.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
6,500.00	0.00	0.00	6,326.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
6,600.00	0.00	0.00	6,426.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
6,700.00	0.00	0.00	6,526.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
6,800.00	0.00	0.00	6,626.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
6,900.00	0.00	0.00	6,726.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
7,000.00	0.00	0.00	6,826.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
7,100.00	0.00	0.00	6,926.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
7,200.00	0.00	0.00	7,026.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
7,300.00	0.00	0.00	7,126.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
7,400.00	0.00	0.00	7,226.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
7,500.00	0.00	0.00	7,326.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
7,600.00	0.00	0.00	7,426.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
7,700.00	0.00	0.00	7,526.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
7,800.00	0.00	0.00	7,626.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
7,900.00	0.00	0.00	7,726.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
8,000.00	0.00	0.00	7,826.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
8,100.00	0.00	0.00	7,926.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
8,200.00	0.00	0.00	8,026.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
8,300.00	0.00	0.00	8,126.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
8,400.00	0.00	0.00	8,226.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
8,500.00	0.00	0.00	8,326.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
8,512.95	0.00	0.00	8,339.00	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
MESAVERDE									
8,600.00	0.00	0.00	8,426.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
8,700.00	0.00	0.00	8,526.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
8,800.00	0.00	0.00	8,626.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
8,900.00	0.00	0.00	8,726.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
9,000.00	0.00	0.00	8,826.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
9,100.00	0.00	0.00	8,926.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 921-25B1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4899' & RKB 14' @ 4913.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4899' & RKB 14' @ 4913.00ft (ASSUMED)
Site:	NBU 921-25A Pad	North Reference:	True
Well:	NBU 921-25B1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,200.00	0.00	0.00	9,026.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
9,300.00	0.00	0.00	9,126.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
9,400.00	0.00	0.00	9,226.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
9,500.00	0.00	0.00	9,326.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
9,600.00	0.00	0.00	9,426.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
9,700.00	0.00	0.00	9,526.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
9,800.00	0.00	0.00	9,626.05	77.60	-1,100.36	1,103.10	0.00	0.00	0.00
9,832.95	0.00	0.00	9,659.00	77.60	-1,100.36	1,103.10	0.00	0.00	0.00

TD at 9832.95 - NBU 921-25B1CS PBHL

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N-S (ft)	+E-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
NBU 921-25B1CS PE	0.00	0.00	9,659.00	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
- plan hits target center									
- Circle (radius 25.00)									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,481.43	2,390.00 8 5/8"		8.625	11.000

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
8,512.95	8,339.00	MESAVERDE			
1,508.78	1,476.00	GREEN RIVER			
4,915.95	4,742.00	WASATCH			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N-S (ft)	+E-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
1,300.00	1,279.82	12.15	-172.34	Start 2214.96 hold at 1300.00 MD
3,514.96	3,361.20	65.45	-928.02	Start Drop -2.00
4,514.96	4,341.01	77.60	-1,100.36	Start 5317.99 hold at 4514.96 MD
9,832.95	9,659.00	77.60	-1,100.36	TD at 9832.95



Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 921-25A Pad
NBU 921-25B1CS
OH

Plan: Plan #1

Standard Planning Report - Geographic

29 July, 2010



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 921-25B1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4899' & RKB 14' @ 4913.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4899' & RKB 14' @ 4913.00ft (ASSUMED)
Site:	NBU 921-25A Pad	North Reference:	True
Well:	NBU 921-25B1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Uintah County, UT UTM12	
Map System:	Universal Transverse Mercator (US Survey Fee)	
Geo Datum:	NAD 1927 - Western US	
Map Zone:	Zone 12N (114 W to 108 W)	

Site	NBU 921-25A Pad, SEC 25 T9S R21E			
Site Position:	From: Lat/Long	Northing: 14,534,327.33 ft	Latitude: 40° 0' 46.562 N	
		Easting: 2,062,672.61 ft	Longitude: 109° 29' 31.211 W	
Position Uncertainty:	0.00 ft	Slot Radius: in	Grid Convergence: 0.97 °	

Well	NBU 921-25B1CS, 489' FNL 565' FEL			
Well Position	+N/-S 0.00 ft	Northing: 14,534,326.80 ft	Latitude: 40° 0' 46.559 N	
	+E/-W 0.00 ft	Easting: 2,062,662.54 ft	Longitude: 109° 29' 31.340 W	
Position Uncertainty	0.00 ft	Wellhead Elevation: ft	Ground Level: 4,899.00 ft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	07/29/2010	11.19	65.90	52,425

Design	Plan #1			
Audit Notes:				
Version:	Phase: PLAN			
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	274.03

Plan Sections									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	20.00	274.03	1,279.82	12.15	-172.34	2.00	2.00	0.00	274.03
3,514.96	20.00	274.03	3,361.20	65.45	-928.02	0.00	0.00	0.00	0.00
4,514.96	0.00	0.00	4,341.01	77.60	-1,100.36	2.00	-2.00	0.00	180.00
9,832.95	0.00	0.00	9,659.00	77.60	-1,100.36	0.00	0.00	0.00	0.00
NBU 921-25B1CS									

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 921-25B1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4899' & RKB 14' @ 4913.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4899' & RKB 14' @ 4913.00ft (ASSUMED)
Site:	NBU 921-25A Pad	North Reference:	True
Well:	NBU 921-25B1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,534,326.80	2,062,662.54	40° 0' 46.559 N	109° 29' 31.340 W
100.00	0.00	0.00	100.00	0.00	0.00	14,534,326.80	2,062,662.54	40° 0' 46.559 N	109° 29' 31.340 W
200.00	0.00	0.00	200.00	0.00	0.00	14,534,326.80	2,062,662.54	40° 0' 46.559 N	109° 29' 31.340 W
300.00	0.00	0.00	300.00	0.00	0.00	14,534,326.80	2,062,662.54	40° 0' 46.559 N	109° 29' 31.340 W
Start Build 2.00									
400.00	2.00	274.03	399.98	0.12	-1.74	14,534,326.89	2,062,660.80	40° 0' 46.560 N	109° 29' 31.363 W
500.00	4.00	274.03	499.84	0.49	-6.96	14,534,327.17	2,062,655.57	40° 0' 46.564 N	109° 29' 31.430 W
600.00	6.00	274.03	599.45	1.10	-15.65	14,534,327.64	2,062,646.87	40° 0' 46.570 N	109° 29' 31.542 W
700.00	8.00	274.03	698.70	1.96	-27.81	14,534,328.29	2,062,634.70	40° 0' 46.578 N	109° 29' 31.698 W
800.00	10.00	274.03	797.47	3.06	-43.41	14,534,329.13	2,062,619.08	40° 0' 46.589 N	109° 29' 31.898 W
900.00	12.00	274.03	895.62	4.40	-62.45	14,534,330.15	2,062,600.03	40° 0' 46.602 N	109° 29' 32.143 W
1,000.00	14.00	274.03	993.06	5.99	-84.89	14,534,331.35	2,062,577.56	40° 0' 46.618 N	109° 29' 32.432 W
1,100.00	16.00	274.03	1,089.64	7.81	-110.70	14,534,332.73	2,062,551.72	40° 0' 46.636 N	109° 29' 32.763 W
1,200.00	18.00	274.03	1,185.27	9.86	-139.87	14,534,334.29	2,062,522.53	40° 0' 46.656 N	109° 29' 33.138 W
1,300.00	20.00	274.03	1,279.82	12.15	-172.34	14,534,336.03	2,062,490.02	40° 0' 46.679 N	109° 29' 33.556 W
Start 2214.96 hold at 1300.00 MD									
1,400.00	20.00	274.03	1,373.78	14.56	-206.46	14,534,337.86	2,062,455.87	40° 0' 46.703 N	109° 29' 33.994 W
1,500.00	20.00	274.03	1,467.75	16.97	-240.57	14,534,339.69	2,062,421.71	40° 0' 46.726 N	109° 29' 34.433 W
1,508.78	20.00	274.03	1,476.00	17.18	-243.57	14,534,339.85	2,062,418.72	40° 0' 46.729 N	109° 29' 34.471 W
GREEN RIVER									
1,600.00	20.00	274.03	1,561.72	19.37	-274.69	14,534,341.52	2,062,387.56	40° 0' 46.750 N	109° 29' 34.871 W
1,700.00	20.00	274.03	1,655.69	21.78	-308.81	14,534,343.35	2,062,353.41	40° 0' 46.774 N	109° 29' 35.310 W
1,800.00	20.00	274.03	1,749.66	24.18	-342.93	14,534,345.18	2,062,319.25	40° 0' 46.798 N	109° 29' 35.748 W
1,900.00	20.00	274.03	1,843.63	26.59	-377.04	14,534,347.00	2,062,285.10	40° 0' 46.822 N	109° 29' 36.187 W
2,000.00	20.00	274.03	1,937.60	29.00	-411.16	14,534,348.83	2,062,250.95	40° 0' 46.845 N	109° 29' 36.626 W
2,100.00	20.00	274.03	2,031.57	31.40	-445.28	14,534,350.66	2,062,216.79	40° 0' 46.869 N	109° 29' 37.064 W
2,200.00	20.00	274.03	2,125.54	33.81	-479.40	14,534,352.49	2,062,182.64	40° 0' 46.893 N	109° 29' 37.503 W
2,300.00	20.00	274.03	2,219.51	36.21	-513.51	14,534,354.32	2,062,148.49	40° 0' 46.917 N	109° 29' 37.941 W
2,400.00	20.00	274.03	2,313.48	38.62	-547.63	14,534,356.15	2,062,114.33	40° 0' 46.940 N	109° 29' 38.380 W
2,481.43	20.00	274.03	2,390.00	40.58	-575.41	14,534,357.63	2,062,086.52	40° 0' 46.960 N	109° 29' 38.737 W
8 5/8"									
2,500.00	20.00	274.03	2,407.45	41.03	-581.75	14,534,357.97	2,062,080.18	40° 0' 46.964 N	109° 29' 38.818 W
2,600.00	20.00	274.03	2,501.42	43.43	-615.86	14,534,359.80	2,062,046.03	40° 0' 46.988 N	109° 29' 39.257 W
2,700.00	20.00	274.03	2,595.39	45.84	-649.98	14,534,361.63	2,062,011.88	40° 0' 47.012 N	109° 29' 39.695 W
2,800.00	20.00	274.03	2,689.35	48.25	-684.10	14,534,363.46	2,061,977.72	40° 0' 47.036 N	109° 29' 40.134 W
2,900.00	20.00	274.03	2,783.32	50.65	-718.22	14,534,365.29	2,061,943.57	40° 0' 47.059 N	109° 29' 40.573 W
3,000.00	20.00	274.03	2,877.29	53.06	-752.33	14,534,367.12	2,061,909.42	40° 0' 47.083 N	109° 29' 41.011 W
3,100.00	20.00	274.03	2,971.26	55.46	-786.45	14,534,368.94	2,061,875.26	40° 0' 47.107 N	109° 29' 41.450 W
3,200.00	20.00	274.03	3,065.23	57.87	-820.57	14,534,370.77	2,061,841.11	40° 0' 47.131 N	109° 29' 41.888 W
3,300.00	20.00	274.03	3,159.20	60.28	-854.69	14,534,372.60	2,061,806.96	40° 0' 47.154 N	109° 29' 42.327 W
3,400.00	20.00	274.03	3,253.17	62.68	-888.80	14,534,374.43	2,061,772.80	40° 0' 47.178 N	109° 29' 42.765 W
3,500.00	20.00	274.03	3,347.14	65.09	-922.92	14,534,376.26	2,061,738.65	40° 0' 47.202 N	109° 29' 43.204 W
3,514.96	20.00	274.03	3,361.20	65.45	-928.02	14,534,376.53	2,061,733.54	40° 0' 47.206 N	109° 29' 43.269 W
Start Drop -2.00									
3,600.00	18.30	274.03	3,441.53	67.41	-955.85	14,534,378.02	2,061,705.69	40° 0' 47.225 N	109° 29' 43.627 W
3,700.00	16.30	274.03	3,537.00	69.50	-985.51	14,534,379.61	2,061,675.99	40° 0' 47.246 N	109° 29' 44.008 W
3,800.00	14.30	274.03	3,633.45	71.36	-1,011.83	14,534,381.02	2,061,649.65	40° 0' 47.264 N	109° 29' 44.347 W
3,900.00	12.30	274.03	3,730.76	72.98	-1,034.78	14,534,382.25	2,061,626.68	40° 0' 47.280 N	109° 29' 44.642 W
4,000.00	10.30	274.03	3,828.82	74.35	-1,054.32	14,534,383.30	2,061,607.11	40° 0' 47.294 N	109° 29' 44.893 W
4,100.00	8.30	274.03	3,927.50	75.49	-1,070.44	14,534,384.16	2,061,590.98	40° 0' 47.305 N	109° 29' 45.100 W
4,200.00	6.30	274.03	4,026.69	76.39	-1,083.11	14,534,384.84	2,061,578.29	40° 0' 47.314 N	109° 29' 45.263 W
4,300.00	4.30	274.03	4,126.25	77.03	-1,092.32	14,534,385.34	2,061,569.07	40° 0' 47.320 N	109° 29' 45.381 W
4,400.00	2.30	274.03	4,226.08	77.44	-1,098.06	14,534,385.64	2,061,563.32	40° 0' 47.324 N	109° 29' 45.455 W

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 921-25B1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4899' & RKB 14' @ 4913.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4899' & RKB 14' @ 4913.00ft (ASSUMED)
Site:	NBU 921-25A Pad	North Reference:	True
Well:	NBU 921-25B1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
4,500.00	0.30	274.03	4,326.05	77.60	-1,100.33	14,534,385.76	2,061,561.06	40° 0' 47.326 N	109° 29' 45.484 W
4,514.96	0.00	0.00	4,341.01	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
Start 5317.99 hold at 4514.96 MD									
4,600.00	0.00	0.00	4,426.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
4,700.00	0.00	0.00	4,526.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
4,800.00	0.00	0.00	4,626.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
4,900.00	0.00	0.00	4,726.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
4,915.95	0.00	0.00	4,742.00	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
WASATCH									
5,000.00	0.00	0.00	4,826.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
5,100.00	0.00	0.00	4,926.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
5,200.00	0.00	0.00	5,026.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
5,300.00	0.00	0.00	5,126.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
5,400.00	0.00	0.00	5,226.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
5,500.00	0.00	0.00	5,326.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
5,600.00	0.00	0.00	5,426.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
5,700.00	0.00	0.00	5,526.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
5,800.00	0.00	0.00	5,626.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
5,900.00	0.00	0.00	5,726.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
6,000.00	0.00	0.00	5,826.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
6,100.00	0.00	0.00	5,926.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
6,200.00	0.00	0.00	6,026.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
6,300.00	0.00	0.00	6,126.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
6,400.00	0.00	0.00	6,226.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
6,500.00	0.00	0.00	6,326.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
6,600.00	0.00	0.00	6,426.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
6,700.00	0.00	0.00	6,526.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
6,800.00	0.00	0.00	6,626.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
6,900.00	0.00	0.00	6,726.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
7,000.00	0.00	0.00	6,826.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
7,100.00	0.00	0.00	6,926.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
7,200.00	0.00	0.00	7,026.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
7,300.00	0.00	0.00	7,126.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
7,400.00	0.00	0.00	7,226.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
7,500.00	0.00	0.00	7,326.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
7,600.00	0.00	0.00	7,426.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
7,700.00	0.00	0.00	7,526.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
7,800.00	0.00	0.00	7,626.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
7,900.00	0.00	0.00	7,726.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
8,000.00	0.00	0.00	7,826.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
8,100.00	0.00	0.00	7,926.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
8,200.00	0.00	0.00	8,026.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
8,300.00	0.00	0.00	8,126.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
8,400.00	0.00	0.00	8,226.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
8,500.00	0.00	0.00	8,326.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
8,512.95	0.00	0.00	8,339.00	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
MESAVERDE									
8,600.00	0.00	0.00	8,426.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
8,700.00	0.00	0.00	8,526.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
8,800.00	0.00	0.00	8,626.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
8,900.00	0.00	0.00	8,726.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
9,000.00	0.00	0.00	8,826.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
9,100.00	0.00	0.00	8,926.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
9,200.00	0.00	0.00	9,026.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 921-25B1CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4899' & RKB 14' @ 4913.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4899' & RKB 14' @ 4913.00ft (ASSUMED)
Site:	NBU 921-25A Pad	North Reference:	True
Well:	NBU 921-25B1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
9,300.00	0.00	0.00	9,126.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
9,400.00	0.00	0.00	9,226.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
9,500.00	0.00	0.00	9,326.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
9,600.00	0.00	0.00	9,426.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
9,700.00	0.00	0.00	9,526.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
9,800.00	0.00	0.00	9,626.05	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
9,832.95	0.00	0.00	9,659.00	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W

TD at 9832.95 - NBU 921-25B1CS PBHL

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/S (ft)	+E/W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
NBU 921-25B1CS PE	0.00	0.00	9,659.00	77.60	-1,100.36	14,534,385.77	2,061,561.02	40° 0' 47.326 N	109° 29' 45.485 W
- plan hits target center									
- Circle (radius 25.00)									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,481.43	2,390.00	8 5/8"	8.625	11.000

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
8,512.95	8,339.00	MESAVERDE			
1,508.78	1,476.00	GREEN RIVER			
4,915.95	4,742.00	WASATCH			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/S (ft)	+E/W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
1,300.00	1,279.82	12.15	-172.34	Start 2214.96 hold at 1300.00 MD
3,514.96	3,361.20	65.45	-928.02	Start Drop -2.00
4,514.96	4,341.01	77.60	-1,100.36	Start 5317.99 hold at 4514.96 MD
9,832.95	9,659.00	77.60	-1,100.36	TD at 9832.95

NBU 921-25A2AS

Surface: 489' FNL 565' FEL (NE/4NE/4)
BHL: 252' FNL 865' FEL (NE/4NE/4)

NBU 921-25B1CS

Surface: 489' FNL 575' FEL (NE/4NE/4)
BHL: 416' FNL 1,676' FEL (NW/4NE/4)

Pad: NBU 921-25A
Section 25 T9S R21E
Mineral Lease: UO 1189 ST

Uintah County, Utah
Operator: Kerr-McGee Oil & Gas Onshore LP

MULTI-POINT SURFACE USE PLAN of OPERATIONS (SUPO)

This SUPO contains surface operating procedures for Kerr-McGee Oil & Gas Onshore LP (KMG), a wholly owned subsidiary of Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC/KMG (including, but not limited to, APDs/SULAs/ROEs/ROWs and/or easements).

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

A. Existing Roads:

Existing roads consist of county roads and improved/unimproved lease roads. APC/KMG will maintain existing roads in a condition that is the same as or better than before operations began and in a safe and usable condition. Maintenance of existing roads will continue until final abandonment and reclamation of well pads and/or other facilities. The road maintenance may include, but is not limited to, blading, ditching, culvert installation/cleanout, surfacing, and dust control.

Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each other to the maximum extent possible; in no case will the maximum disturbance width of the access road and utility corridors exceed 50', unless otherwise approved.

B. Planned Access Roads:

No new access road to this pad location is proposed (see Topo Map B). Applicable Uintah County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

Where roads are new or to be reconstructed, they will be located, designed, and maintained to meet the

standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, KMG will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers.

Turnouts; major cut and fills; culverts; bridges; gates; cattle guards; low water crossings; or modifications needed to existing infrastructure/facilities were determined at the on-site and, as applicable, are typically shown on attached Exhibits and Topo maps.

C. Location of Existing and Proposed Facilities:

This pad will expand the existing pad for the NBU 921-25A, which is a vertical producing well according to Utah Division of Oil, Gas and Mining (UDOGM) records as of August 10, 2010.

Production facilities (see Well Pad Design Summary and Facilities Diagram):

Production facilities will be installed on the disturbed portion of each well pad and may include bermed components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed of compacted subsoil or corrugated metal, impervious, designed to hold 110% of the capacity of the largest tank, and be independent of the back cut. All permanent (on-site six months or longer) aboveground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

Production tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks are not to be used for disposal of liquids from additional sources without prior approval of UDOGM.

Gathering facilities:

The following pipeline transmission facilities will apply if the well is productive (see Topo D):

The total gas gathering (steel line pipe with fusion bond epoxy coating) pipeline distances from the meter to the tie in point is $\pm 2,410'$ and the individual segments are broken up as follows:

- $\pm 810'$ (0.2 miles) –New 6" buried gas pipeline from the meter to the edge of the pad.
- $\pm 430'$ (0.1 miles) –New 6" buried gas pipeline from the edge of pad to the NBU 922-30D pad intersection.
- $\pm 1,170'$ (0.2 miles) –New 8" buried gas pipeline from the NBU 922-30D pad intersection to the NBU 921-25H pad intersection.

The total liquid gathering pipeline distance from the meter to the tie in point is $\pm 2,180'$ and the individual segments are broken up as follows:

- $\pm 810'$ (0.2 miles) –New 4" buried 6" liquid pipeline from the meter to the edge of the pad.
- $\pm 1,370'$ (0.3 miles) –New 4" buried liquid pipeline from the edge of pad to the NBU 921-25H pad intersection.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92%

produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

The proposed pipelines will be buried and will include gas gathering and liquid gathering pipelines in the same trench. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. Kerr-McGee requests a permanent 30' right-of-way adjacent to the road for life-of-project for maintenance, repairs, and/or upgrades, no additional right-of-way will be needed beyond the 30'. Where the pipeline is not adjacent to the road or well pad, Kerr-McGee requests a temporary 45' construction right-of-way and 30' permanent right-of-way.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. During construction blasting may occur along the proposed right-of-way where trenching equipment cannot cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed pipelines will be pressure tested pneumatically (depending on size) or with fluids (either fresh or produced). If fluids are used, there will be no discharge to the surface.

Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves, T's, and/or cathodic protection will be installed at various locations for connection, corrosion prevention and/or for safety purposes.

D. Location and Type of Water Supply:

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

E. Source of Construction Materials:

Construction operations will typically be completed with native materials found on location. If needed, construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

F. Methods of Handling Waste Materials:

Should the well be productive, produced water will be contained in a water tank and will be transported by pipeline and/or truck to an approved disposal sites facilities and/or Salt Water Disposal (SWD) injection well. Currently, those facilities are:

RNI in Sec. 5 T9S R22E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E
Ouray #1 SWD in Sec. 1 T9S R21E
NBU 159 SWD in Sec. 35 T9S R21E
CIGE 112D SWD in Sec. 19 T9S R21E
CIGE 114 SWD in Sec. 34 T9S R21E
NBU 921-34K SWD in Sec. 34 T9S R21E
NBU 921-33F SWD in Sec. 33 T9S R21E
NBU 921-34L SWD in Sec. 34 T9S R21E

Drill cuttings and/or fluids will be contained in the reserve/frac pit. Cuttings will be buried in pit(s) upon closure. Unless otherwise approved, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions or well testing, product will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with a synthetic material 20-mil or thicker. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. Any additional pits necessary to subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

For the protection of livestock and wildlife, all open pits and cellars will be fenced/covered to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented

and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Any undesirable event, accidental release, or in excess of reportable quantities will be managed according to the notification requirements of UDOGMs “Reporting Oil and Gas Undesirable Events” rule, and, where State wells are participatory to a Federal agreement, according to NTL-3A.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term “hazardous materials” as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

G. Ancillary Facilities:

None are anticipated.

H. Well Site Layout (see Well Pad Design Summary):

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure; proposed cuts and fills; and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1983 (NAD83) or latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

I. Plans for Reclamation of the Surface:

Surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. This reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but are not limited to: re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left “rough” after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit.

Final Reclamation

Final reclamation will be performed for newly drilled unproductive wells and/or at the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by APC/KMG. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring, final grading will be conducted over the entire surface of the well site and access road. Where practical, the area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and surface materials will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep perpendicular to the natural flow of water.

All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to UDOGM.

Seeding and Measures Common to Interim and Final Reclamation

Reclaimed areas may be fenced to exclude grazing and encourage re-vegetation.

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to, erosion control blankets and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Seeding will occur year-round as conditions allow. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The site specific seed mix will be provided by SITLA.

J. Surface/Mineral Ownership:

SITLA
675 East 500 South, Suite 500
Salt Lake City, UT 84102

K. Other Information:

A Class I literature survey has been conducted by Montgomery Archaeological Consultants, Inc. (MOAC). For additional details please refer to report MOAC 10-125.

A paleontological reconnaissance has been completed by Intermountain Paleo-Consulting (IPC) and a report will be provided under separate cover.

A biological field survey was completed by Grasslands Consulting, Inc. on July 13, 2010. For additional details please refer to report GCI-295.

M. Lessee's or Operators' Representative & Certification:

Danielle Piernot
Regulatory Analyst I
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6156

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

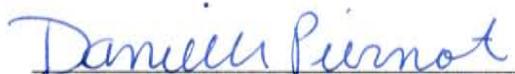
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.


Danielle Piernot

August 13, 2010

Date

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS
ONSHORE LP'S 36 PROPOSED WELL LOCATIONS
IN T9S, R21E, SECTION 25
(MOAC Report No. 10-125)
UINTAH COUNTY, UTAH

By:

Nicole Shelnut

Prepared For:

State of Utah
School and Institutional Trust Lands Administration

Prepared Under Contract With:

Kerr-McGee Oil and Gas Onshore LP
1368 South 1200 East
Vernal, Utah 84078

Prepared By:

Montgomery Archaeological Consultants, Inc.
P.O. Box 219
Moab, Utah 84532

MOAC Report No. 10-125

July 26, 2010

State of Utah Public Lands Policy Coordination Office
Permit No. 117

United States Department of Interior (FLPMA)
Permit No. 10-UT-60122



Grasslands Consulting, Inc.

4800 Happy Canyon Road, Suite 110, Denver, CO 80237

(303) 759-5377 Office (303) 759-5324 Fax

SPECIAL STATUS PLANT AND WILDLIFE SPECIES REPORT

Report Number: GCI #295

Report Date: August 03, 2010

Operator: Kerr-McGee Oil & Gas Onshore LP

Well: NBU 921-25A well pad (Bores: NBU 921-25A2AS & NBU 921-25B1CS)

Pipeline: Associated pipeline leading to proposed well pad

Location: Section 25, Township 9 South, Range 21 East; Uintah County, Utah

Survey-Species: Uinta Basin Hookless Cactus (*Sclerocactus wetlandicus*)

Survey Date: July 13, 2010

Observers: Grasslands Consulting, Inc. Biologists: Brad Snopek, Jennie Sinclair, Jonathan Sexauer, Adrienne Cunningham, Garrett Peterson and field technicians.



Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
DENVER, CO 80217-3779

July 15, 2010

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11

NBU 921-25B1CS

T9S-R21E

Section 25: NENE surface, NWNE bottom hole

Surface: 489' FNL, 575' FEL

Bottom Hole: 416' FNL, 1676' FEL

Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

- Kerr-McGee's NBU 921-25B1CS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

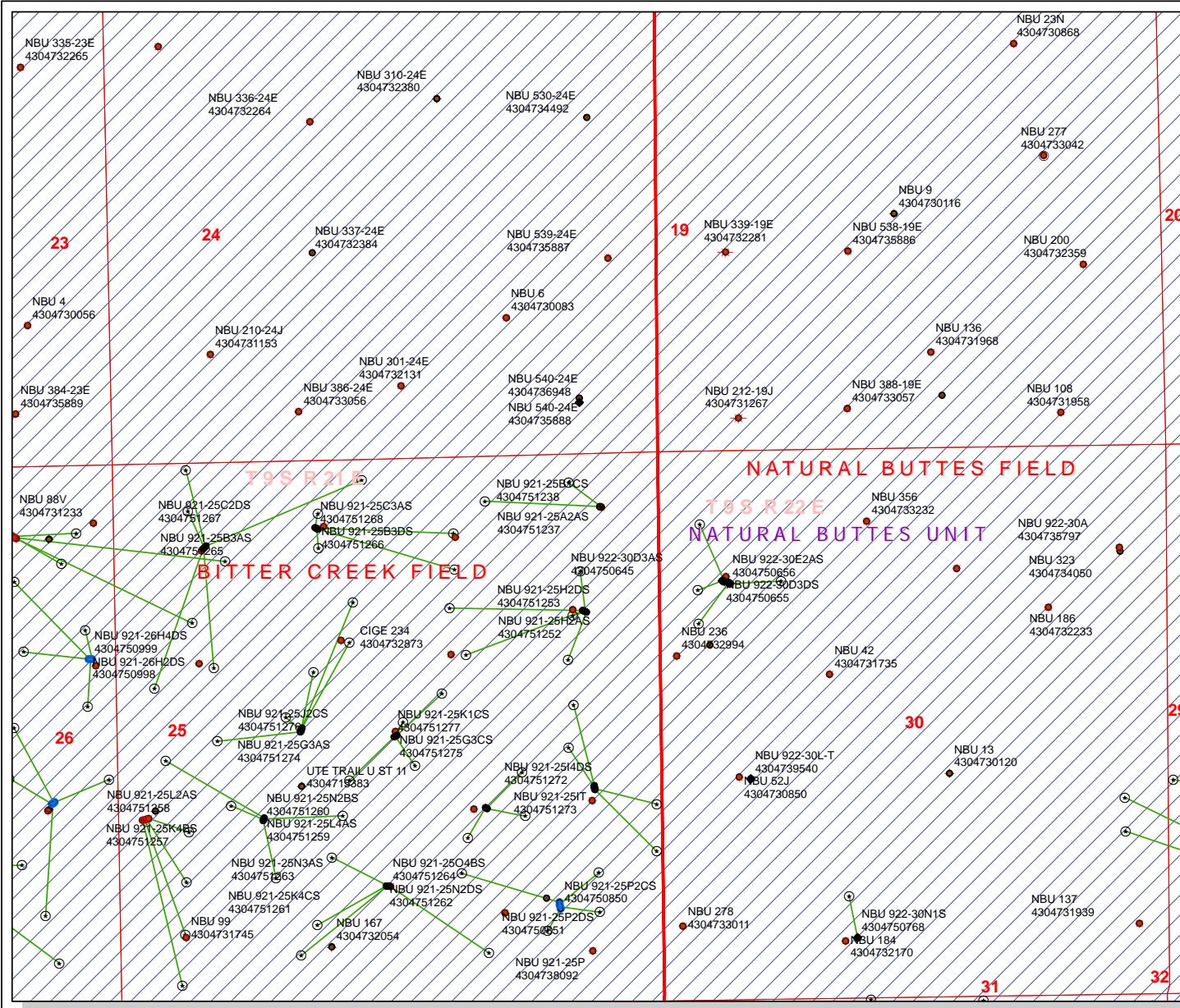
Therefore, based on the above stated information, Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

A handwritten signature in blue ink that reads "Joe Matney".

Joe Matney
Sr. Staff Landman



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

August 17, 2010

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2010 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2010 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		

NBU 921-25A Pad

43-047-51237 NBU 921-25A2AS Sec 25 T09S R21E 0489 FNL 0565 FEL
BHL Sec 25 T09S R21E 0252 FNL 0865 FEL

43-047-51238 NBU 921-25B1CS Sec 25 T09S R21E 0489 FNL 0575 FEL
BHL Sec 25 T09S R21E 0416 FNL 1676 FEL

NBU 921-25D Pad

43-047-51239 NBU 921-25C1AS Sec 25 T09S R21E 0800 FNL 0893 FWL
BHL Sec 25 T09S R21E 0190 FNL 2405 FWL

43-047-51240 NBU 921-25D1BS Sec 25 T09S R21E 0807 FNL 0885 FWL
BHL Sec 25 T09S R21E 0060 FNL 0716 FWL

43-047-51241 NBU 921-25E1CS Sec 25 T09S R21E 0821 FNL 0871 FWL
BHL Sec 25 T09S R21E 1976 FNL 0947 FWL

43-047-51242 NBU 921-25E3AS Sec 25 T09S R21E 0828 FNL 0864 FWL
BHL Sec 25 T09S R21E 2162 FNL 0371 FWL

43-047-51251 NBU 921-25D1CS Sec 25 T09S R21E 0814 FNL 0878 FWL
BHL Sec 25 T09S R21E 0460 FNL 0726 FWL

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

NBU 921-25F Pad

43-047-51243 NBU 921-25F1BS Sec 25 T09S R21E 2580 FNL 1780 FWL
 BHL Sec 25 T09S R21E 1366 FNL 2296 FWL

43-047-51244 NBU 921-25F1CS Sec 25 T09S R21E 2571 FNL 1784 FWL
 BHL Sec 25 T09S R21E 1754 FNL 2259 FWL

43-047-51245 NBU 921-25F3AS Sec 25 T09S R21E 2589 FNL 1776 FWL
 BHL Sec 25 T09S R21E 2034 FNL 1905 FWL

43-047-51246 NBU 921-25F3CS Sec 25 T09S R21E 2598 FNL 1772 FWL
 BHL Sec 25 T09S R21E 2461 FNL 1628 FWL

43-047-51247 NBU 921-25L1BS Sec 25 T09S R21E 2607 FNL 1768 FWL
 BHL Sec 25 T09S R21E 2597 FSL 0969 FWL

NBU 921-25H Pad

43-047-51248 NBU 921-25A3DS Sec 25 T09S R21E 1498 FNL 0736 FEL
 BHL Sec 25 T09S R21E 1110 FNL 0776 FEL

43-047-51249 NBU 921-25G1CS Sec 25 T09S R21E 1489 FNL 0754 FEL
 BHL Sec 25 T09S R21E 1895 FNL 1893 FEL

43-047-51250 NBU 921-25G2AS Sec 25 T09S R21E 1484 FNL 0763 FEL
 BHL Sec 25 T09S R21E 1439 FNL 2042 FEL

43-047-51252 NBU 921-25H2AS Sec 25 T09S R21E 1493 FNL 0745 FEL
 BHL Sec 25 T09S R21E 1538 FNL 0857 FEL

43-047-51253 NBU 921-25H2DS Sec 25 T09S R21E 1502 FNL 0727 FEL
 BHL Sec 25 T09S R21E 1958 FNL 0913 FEL

NBU 921-25J Pad

43-047-51254 NBU 921-25J4AS Sec 25 T09S R21E 1878 FSL 1725 FEL
 BHL Sec 25 T09S R21E 1795 FSL 1360 FEL

43-047-51255 NBU 921-25J4CS Sec 25 T09S R21E 1886 FSL 1743 FEL
 BHL Sec 25 T09S R21E 1604 FSL 1920 FEL

43-047-51256 NBU 921-25J1DS Sec 25 T09S R21E 1882 FSL 1734 FEL
 BHL Sec 25 T09S R21E 2218 FSL 1381 FEL

NBU 921-25K Pad

43-047-51257 NBU 921-25K4BS Sec 25 T09S R21E 1838 FSL 1400 FWL
 BHL Sec 25 T09S R21E 1848 FSL 2161 FWL

43-047-51258 NBU 921-25L2AS Sec 25 T09S R21E 1848 FSL 1402 FWL
 BHL Sec 25 T09S R21E 2423 FSL 0465 FWL

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

43-047-51259 NBU 921-25L4AS Sec 25 T09S R21E 1829 FSL 1397 FWL
 BHL Sec 25 T09S R21E 1975 FSL 1088 FWL

43-047-51260 NBU 921-25N2BS Sec 25 T09S R21E 1819 FSL 1394 FWL
 BHL Sec 25 T09S R21E 1260 FSL 1508 FWL

NBU 921-25N Pad

43-047-51261 NBU 921-25K4CS Sec 25 T09S R21E 1157 FSL 2585 FWL
 BHL Sec 25 T09S R21E 1450 FSL 2045 FWL

43-047-51262 NBU 921-25N2DS Sec 25 T09S R21E 1159 FSL 2565 FWL
 BHL Sec 25 T09S R21E 0800 FSL 1896 FWL

43-047-51263 NBU 921-25N3AS Sec 25 T09S R21E 1158 FSL 2575 FWL
 BHL Sec 25 T09S R21E 0508 FSL 1729 FWL

43-047-51264 NBU 921-25O4BS Sec 25 T09S R21E 1156 FSL 2595 FWL
 BHL Sec 25 T09S R21E 0485 FSL 1741 FEL

NBU 921-25C Pad

43-047-51265 NBU 921-25B3AS Sec 25 T09S R21E 0645 FNL 1955 FWL
 BHL Sec 25 T09S R21E 0720 FNL 1985 FEL

43-047-51266 NBU 921-25B3DS Sec 25 T09S R21E 0654 FNL 1972 FWL
 BHL Sec 25 T09S R21E 1070 FNL 1985 FEL

43-047-51267 NBU 921-25C2DS Sec 25 T09S R21E 0640 FNL 1946 FWL
 BHL Sec 25 T09S R21E 0504 FNL 1975 FWL

43-047-51268 NBU 921-25C3AS Sec 25 T09S R21E 0650 FNL 1964 FWL
 BHL Sec 25 T09S R21E 0841 FNL 1975 FWL

NBU 921-25I Pad

43-047-51269 NBU 921-25H3DS Sec 25 T09S R21E 2074 FSL 0690 FEL
 BHL Sec 25 T09S R21E 2395 FNL 0870 FEL

43-047-51270 NBU 921-25I2AS Sec 25 T09S R21E 2054 FSL 0687 FEL
 BHL Sec 25 T09S R21E 2445 FSL 0924 FEL

43-047-51271 NBU 921-25I4AS Sec 25 T09S R21E 2045 FSL 0686 FEL
 BHL Sec 25 T09S R21E 1882 FSL 0091 FEL

43-047-51272 NBU 921-25I4DS Sec 25 T09S R21E 2035 FSL 0684 FEL
 BHL Sec 25 T09S R21E 1420 FSL 0105 FEL

43-047-51273 NBU 921-25IT Sec 25 T09S R21E 2064 FSL 0689 FEL
 BHL Sec 25 T09S R21E 2064 FSL 0689 FEL

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
NBU 921-25J2 Pad		
43-047-51274	NBU 921-25G3AS	Sec 25 T09S R21E 2611 FSL 2578 FEL BHL Sec 25 T09S R21E 2265 FNL 2136 FEL
43-047-51275	NBU 921-25G3CS	Sec 25 T09S R21E 2606 FSL 2587 FEL BHL Sec 25 T09S R21E 2530 FNL 2518 FEL
43-047-51276	NBU 921-25J2CS	Sec 25 T09S R21E 2601 FSL 2596 FEL BHL Sec 25 T09S R21E 2310 FSL 2410 FEL
43-047-51277	NBU 921-25K1CS	Sec 25 T09S R21E 2596 FSL 2605 FEL BHL Sec 25 T09S R21E 2186 FSL 2231 FWL

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

 Digitally signed by Michael L. Coulthard
DN: cn=Michael.L.Coulthard,o=Bureau of Land Management,ou=Branch of Minerals,
email=Michael.Coulthard@blm.gov,c=US
Date: 2010-08-17 14:58:46 -06'00'

bcc: File - Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:8-17-10

From: Jim Davis
To: Bonner, Ed; Garrison, LaVonne; Hill, Brad; Mason, Diana
CC: Bartlett, Floyd; Laura.Gianakos@anadarko.com; Piernot, Danielle; Upch...
Date: 9/2/2010 9:13 AM
Subject: SITLA approval of Kerr McGee wells
Attachments: KMG approvals and paleo 9.1.2010.xlsx

The following wells have been approved by SITLA including arch clearance. Paleo clearance is also granted with stipulations as noted.

Full Paleo monitoring: All ground-disturbing activities must be monitored by a permitted paleontologist.

NBU 922-29F4DS [API #4304751207]	Full Monitoring	IPC 10-08
NBU 922-29G4CS [API #4304751208]	Full Monitoring	IPC 10-08
NBU 922-29J4BS [API #4304751209]	Full Monitoring	IPC 10-08
NBU 922-29K1DS [API #4304751210]	Full Monitoring	IPC 10-08
NBU 922-29G1AS [API #4304751194]	Full Monitoring	IPC 10-06
NBU 922-29G1DS [API #4304751195]	Full Monitoring	IPC 10-06
NBU 922-29G2BS [API #4304751196]	Full Monitoring	IPC 10-06
NBU 922-29G3BS [API #4304751197]	Full Monitoring	IPC 10-06
NBU 921-25A3DS [API 4304751248]	Full Monitoring	IPC 10-21
NBU 921-25G1CS [API 4304751249]	Full Monitoring	IPC 10-21
NBU 921-25G2AS [API 4304751250]	Full Monitoring	IPC 10-21
NBU 921-25H2AS [API 4304751252]	Full Monitoring	IPC 10-21
NBU 921-25H2DS [API 4304751253]	Full Monitoring	IPC 10-21
NBU 921-25G3AS [API 4304751274]	Full Monitoring	IPC 10-23
NBU 921-25G3CS [API 4304751275]	Full Monitoring	IPC 10-23
NBU 921-25J2CS [API 4304751276]	Full Monitoring	IPC 10-23
NBU 921-25K1CS [API 4304751277]	Full Monitoring	IPC 10-23
NBU 921-25A2AS [API 4304751237]	Full Monitoring	IPC 10-21
NBU 921-25B1CS [API 4304751238]	Full Monitoring	IPC 10-21

Spot Paleo Monitoring: All ground-disturbing activities must be monitored by a permitted paleontologist at the beginning of construction and thereafter spot-monitored as paleontological conditions merit.

NBU 921-25C1AS [API 4304751239]	Spot Monitoring	IPC 10-20
NBU 921-25D1BS [API 4304751240]	Spot Monitoring	IPC 10-20
NBU 921-25D1CS [API 4304751251]	Spot Monitoring	IPC 10-20
NBU 921-25E1CS [API 4304751241]	Spot Monitoring	IPC 10-20
NBU 921-25E3AS [API 4304751242]	Spot Monitoring	IPC 10-20
NBU 921-25F1BS [API 4304751243]	Spot Monitoring	IPC 10-21
NBU 921-25F1CS [API 4304751244]	Spot Monitoring	IPC 10-21
NBU 921-25F3AS [API 4304751245]	Spot Monitoring	IPC 10-21
NBU 921-25F3CS [API 4304751246]	Spot Monitoring	IPC 10-21
NBU 921-25L1BS [API 4304751247]	Spot Monitoring	IPC 10-21
NBU 921-25J1DS [API 4304751256]	Spot Monitoring	IPC 10-23
NBU 921-25J4AS [API 4304751254]	Spot Monitoring	IPC 10-23
NBU 921-25J4CS [API 4304751255]	Spot Monitoring	IPC 10-23
NBU 921-25K4BS [API 4304751257]	Spot Monitoring	IPC 10-22
NBU 921-25L2AS [API 4304751258]	Spot Monitoring	IPC 10-22
NBU 921-25L4AS [API 4304751259]	Spot Monitoring	IPC 10-22
NBU 921-25N2BS [API 4304751260]	Spot Monitoring	IPC 10-22
NBU 921-25K4CS [API 4304751261]	Spot Monitoring	IPC 10-23
NBU 921-25N2DS [API 4304751262]	Spot Monitoring	IPC 10-23
NBU 921-25N3AS [API 4304751263]	Spot Monitoring	IPC 10-23

NBU 921-25O4BS [API 4304751264]	Spot Monitoring	IPC 10-23
NBU 921-25B3AS [API 4304751265]	Spot Monitoring	IPC 10-20
NBU 921-25B3DS [API 4304751266]	Spot Monitoring	IPC 10-20
NBU 921-25C2DS [API 4304751267]	Spot Monitoring	IPC 10-20
NBU 921-25C3AS [API 4304751268]	Spot Monitoring	IPC 10-20
NBU 921-25IT [API 4304751273]	Spot Monitoring	IPC 10-23
NBU 921-25H3DS [API 4304751269]	Spot Monitoring	IPC 10-23
NBU 921-25I2AS [API 4304751270]	Spot Monitoring	IPC 10-23
NBU 921-25I4AS [API 4304751271]	Spot Monitoring	IPC 10-23
NBU 921-25I4DS [API 4304751272]	Spot Monitoring	IPC 10-23
NBU 922-29A1BS [API #4304751183]	Spot Monitoring	IPC 10-06
NBU 922-29A1CS [API #4304751184]	Spot Monitoring	IPC 10-06
NBU 922-29A4CS [API #4304751185]	Spot Monitoring	IPC 10-06
NBU 922-29H1BS [API #4304751186]	Spot Monitoring	IPC 10-06
NBU 922-29B2CS [API #4304751187]	Spot Monitoring	IPC 10-06
NBU 922-29B4AS [API #4304751188]	Spot Monitoring	IPC 10-06 (SITLA surf/ Fed Min)
NBU 922-29C2AS [API #4304751189]	Spot Monitoring	IPC 10-06 (SITLA surf/ Fed Min)
NBU 922-29C4AS [API #4304751190]	Spot Monitoring	IPC 10-06
NBU 922-29B1AS [API #4304751191]	Spot Monitoring	IPC 10-06
NBU 922-29B1DS [API #4304751192]	Spot Monitoring	IPC 10-06
NBU 922-29B2BS [API #4304751193]	Spot Monitoring	IPC 10-06
NBU 922-29D4DS [API #4304751198]	Spot Monitoring	IPC 10-05
NBU 922-29E3BS [API #4304751199]	Spot Monitoring	IPC 10-05
NBU 922-29F3AS [API #4304751200]	Spot Monitoring	IPC 10-05
NBU 922-29F3BS [API #4304751201]	Spot Monitoring	IPC 10-05
NBU 922-29G4AS [API #4304751202]	Spot Monitoring	IPC 10-06
NBU 922-29H1CS [API #4304751203]	Spot Monitoring	IPC 10-06
NBU 922-29H4CS [API #4304751204]	Spot Monitoring	IPC 10-06
NBU 922-29I1BS [API #4304751205]	Spot Monitoring	IPC 10-06
NBU 922-29I1CS [API #4304751206]	Spot Monitoring	IPC 10-06
NBU 922-29K2CS [API #4304751211]	Spot Monitoring	IPC 10-07
NBU 922-29K4AS [API #4304751212]	Spot Monitoring	IPC 10-07
NBU 922-29L1AS [API #4304751213]	Spot Monitoring	IPC 10-07
NBU 922-29L2BS [API #4304751214]	Spot Monitoring	IPC 10-07
NBU 922-29L2CS [API #4304751215]	Spot Monitoring	IPC 10-07
NBU 922-29L3CS [API #4304751216]	Spot Monitoring	IPC 10-07
NBU 922-29M2AS [API #4304751217]	Spot Monitoring	IPC 10-07
NBU 922-29N2BS [API #4304751218]	Spot Monitoring	IPC 10-07
NBU 922-29N3BS [API #4304751219]	Spot Monitoring	IPC 10-07
NBU 922-30I4BS [API #4304751220]	Spot Monitoring	IPC 10-07 (SITLA surf/ Fed Min)
NBU 922-30I4CS [API #4304751221]	Spot Monitoring	IPC 10-07 (SITLA surf/Fed Min)
NBU 922-29J4CS [API #4304751222]	Spot Monitoring	IPC 10-08
NBU 922-29N1BS [API #4304751223]	Spot Monitoring	IPC 10-08
NBU 922-29O1CS [API #4304751224]	Spot Monitoring	IPC 10-08

That's quite a list, so I'm attaching a quick-and-dirty spreadsheet of the same data. This may be helpful to some of you.

Thanks.
-Jim

Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov
Phone: (801) 538-5156

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 921-25B1CS 430475123			
String	Surf	Prod		
Casing Size("")	8.625	4.500		
Setting Depth (TVD)	2390	9659		
Previous Shoe Setting Depth (TVD)	40	2390		
Max Mud Weight (ppg)	8.3	12.0		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	7780		
Operators Max Anticipated Pressure (psi)	5892	11.7		

Calculations	Surf String	8.625 "	
Max BHP (psi)	.052*Setting Depth*MW=	1035	BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	748	NO air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	509	NO OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	518	NO Reasonable depth in area
Required Casing/BOPE Test Pressure=		2373	psi
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi *Assumes 1psi/ft frac gradient

Calculations	Prod String	4.500 "	
Max BHP (psi)	.052*Setting Depth*MW=	6027	BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4868	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3902	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4428	NO Reasonable
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2390	psi *Assumes 1psi/ft frac gradient

Calculations	String	"	
Max BHP (psi)	.052*Setting Depth*MW=		BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

Calculations	String	"	
Max BHP (psi)	.052*Setting Depth*MW=		BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

43047512380000 NBU 921-25B1CS

Casing Schematic

Surface

Uinta

✓ stip surf. cont.

8-5/8"
MW 8.3
Frac 19.3

4-1/2"
MW 12.

TOC @ 1986
2135' Mahogany
Surface
2390. MD
2304. TVD

4742' Wasatch

5325' tail



7420' Mesaverde

8339' MV U2

8878' MV L1

Production
9833. MD
9659. TVD

Well name:	43047512380000 NBU 921-25B1CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface		
Location:	UINTAH	COUNTY	Project ID: 43-047-51238

Design parameters:**Collapse**

Mud weight: 8.330 ppg
 Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 2,103 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP 2,380 psi

No backup mud specified.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 106 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top: 1,282 ft

Directional Info - Build & Drop

Kick-off point 300 ft
 Departure at shoe: 546 ft
 Maximum dogleg: 2 °/100ft
 Inclination at shoe: 20 °

Re subsequent strings:

Next setting depth: 9,659 ft
 Next mud weight: 12.000 ppg
 Next setting BHP: 6,021 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 2,390 ft
 Injection pressure: 2,390 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2390	8.625	28.00	I-55	LT&C	2304	2390	7.892	94644
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	997	1880	1.886	2380	3390	1.42	64.5	348	5.39 J

Prepared Helen Sadik-Macdonald
 by: Div of Oil,Gas & Mining

Phone: 801 538-5357
 FAX: 801-359-3940

Date: October 5,2010
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2304 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:	43047512380000 NBU 921-25B1CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Production		
Location:	UINTAH	COUNTY	Project ID: 43-047-51238

Design parameters:**Collapse**

Mud weight: 12.000 ppg
Internal fluid density: 1.000 ppg

Burst

Max anticipated surface pressure: 3,896 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 6,021 psi

No backup mud specified.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 209 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,986 ft

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 1103 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 0 °

Tension is based on air weight.

Neutral point: 8,100 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	9833	4.5	11.60	I-80	LT&C	9659	9833	3.875	129796
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	5519	6360	1.152	6021	7780	1.29	112	212	1.89 J

Prepared Helen Sadik-Macdonald
by: Div of Oil,Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: October 5,2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9659 ft, a mud weight of 12 ppg. An internal gradient of .052 psi/ft was used for collapse from TD to Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.			
Well Name	NBU 921-25B1CS			
API Number	43047512380000	APD No	2923	Field/Unit
Location: 1/4,1/4	NENE	Sec 25	Tw 9.0S	Rng 21.0E 489 FNL 575 FEL
GPS Coord (UTM)	628704	4430072	Surface Owner	

Participants

Floyd Bartlett (DOGM), Sheila Wopsock, Clay Einerson, Roger Perry, Laura Gianokas, Lovel Young, Grizz Oleen, (Kerr McGee), Mitch.Batty, John Slaugh, (Timberline Engineering and Land Surveying), Ed Bonner (SITLA), Ben Williams (UDWR).

Regional/Local Setting & Topography

The general area is the Natural Buttes Unit in a major un-named drainage west of the lower portion of the Sand Wash drainage of Uintah, County, approximately 33 air miles and 42.0 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads. Topography of the area is characterized by open flats bordered or dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs furnishing water for antelope or livestock.

The NBU 921-25A pad will be an enlargement of the existing pad for the NBU 921-25A gas well. It will be slightly enlarged in all directions. The site is in gentle terrain. A rocky ridge with exposed sandstone outcrops exists to the south. No drainages intersect the site and no diversions are needed. Two new gas wells will be directionally drilled from this pad. They are the NBU 921-25A2AS and 921-25B1CS. The White River is approximately 3 miles down drainage. The selected site appears to be a good location for constructing a pad, drilling and operating the proposed wells and is the best site in the immediate area. The Ute Tribal boundary fence is about 1/10 mile to the north.

Both the surface and minerals are owned by SITLA.

Surface Use Plan

Current Surface Use

- Grazing
- Wildlife Habitat
- Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 352 Length 435	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Vegetation is a poor desert shrub type, which includes Gardner saltbrush, rabbitbrush, shadscale, curly mesquite, broom snakeweed, globemallow and halogeton..

Antelope, sheep during the winter, rabbits, coyotes, and small mammals, birds and raptors.

Soil Type and Characteristics

Surface soils are shallow and rocky.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y **Paleo Potential Observed?** N **Cultural Survey Run?** Y **Cultural Resources?** N

Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)		20
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
	Final Score	40 1 Sensitivity Level

Characteristics / Requirements

The proposed reserve pit is 125' x 260' x 12' deep located in a cut on the southeast side of the location. Kerr McGee plans a 30-mil liner with a double felt sub-liner.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 30 **Pit Underlayment Required?** Y

Other Observations / Comments

Floyd Bartlett
Evaluator

8/26/2010
Date / Time

Application for Permit to Drill

Statement of Basis

10/6/2010

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
2923	43047512380000	SITLA	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 921-25B1CS		Unit	NATURAL BUTTES	
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	NENE 25 9S 21E S 489 FNL 575 FEL	GPS Coord (UTM)		628703E 4430071N	

Geologic Statement of Basis

Kerr McGee proposes to set 2,390' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 900'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 25. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement should adequately protect any usable ground water.

Brad Hill
APD Evaluator

9/29/2010
Date / Time

Surface Statement of Basis

The general area is the Natural Buttes Unit in a major un-named drainage west of the lower portion of the Sand Wash drainage of Uintah County, approximately 33 air miles and 42.0 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads. Topography of the area is characterized by open flats bordered or dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs furnishing water for antelope or livestock.

The NBU 921-25A pad will be an enlargement of the existing pad for the NBU 921-25A gas well. It will be slightly enlarged in all directions. The site is in gentle terrain. A rocky ridge with exposed sandstone outcrops exists to the south. No drainages intersect the site and no diversions are needed. Two new gas wells will be directionally drilled from this pad. They are the NBU 921-25A2AS and 921-25B1CS. The White River is approximately 3 miles down drainage. The selected site appears to be a good location for constructing a pad, drilling and operating the proposed wells and is the best site in the immediate area. The Ute Tribal boundary fence is about 1/10 mile to the north.

Both the surface and minerals are owned by SITLA. Ed Bonner represented SITLA at the pre-site investigation. Mr. Bonner had no concerns pertaining to this location. SITLA will provide site reclamation standards and a seed mix.

Ben Williams represented the Utah Division of Wildlife Resources. Mr. Williams stated the area is classified as crucial yearlong antelope habitat but recommended no restrictions for this species. No other wildlife will be significantly affected.

Floyd Bartlett
Onsite Evaluator

8/26/2010
Date / Time

Conditions of Approval / Application for Permit to Drill

Application for Permit to Drill Statement of Basis

10/6/2010

Utah Division of Oil, Gas and Mining

Page 2

Category	Condition
Pits	A synthetic liner with a minimum thickness of 30 mils with a double felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 8/13/2010

API NO. ASSIGNED: 43047512380000

WELL NAME: NBU 921-25B1CS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: NENE 25 090S 210E

Permit Tech Review:

SURFACE: 0489 FNL 0575 FEL

Engineering Review:

BOTTOM: 0416 FNL 1676 FEL

Geology Review:

COUNTY: UNTAH

LATITUDE: 40.01293

LONGITUDE: -109.49202

UTM SURF EASTINGS: 628703.00

NORTHINGS: 4430071.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: UO 1189 ST

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 3 - State

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

PLAT

Bond: STATE/FEE - 22013542

Potash

Oil Shale 190-5

Oil Shale 190-3

Oil Shale 190-13

Water Permit: Permit #43-8496

RDCC Review:

Fee Surface Agreement

Intent to Commingle

Commingling Approved

LOCATION AND SITING:

R649-2-3.

Unit: NATURAL BUTTES

R649-3-2. General

R649-3-3. Exception

Drilling Unit

Board Cause No: Cause 173-14

Effective Date: 12/2/1999

Siting: Suspends General Siting

R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 3 - Commingling - ddoucet
5 - Statement of Basis - bhill
15 - Directional - dmason
17 - Oil Shale 190-5(b) - dmason
25 - Surface Casing - hmacdonald



GARY R. HERBERT

Governor

GREGORY S. BELL

Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 921-25B1CS

API Well Number: 43047512380000

Lease Number: UO 1189 ST

Surface Owner: STATE

Approval Date: 10/6/2010

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Surface casing shall be cemented to the surface.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
 801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
 801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:



For John Rogers
Associate Director, Oil & Gas

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By ANDY LYTLE Phone Number 720.929.6100
Well Name/Number NBU 921-25B1CS
Qtr/Qtr NENE Section 25 Township 9S Range 21E
Lease Serial Number UO 1189 ST
API Number 4304751238

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 12/15/2010 12:00 HRS AM PM

Casing – Please report time casing run starts, not cementing times.

- Surface Casing
- Intermediate Casing
- Production Casing
- Liner
- Other

Date/Time 01/08/2011 08:00 HRS AM PM

BOPE

- Initial BOPE test at surface casing point
- BOPE test at intermediate casing point
- 30 day BOPE test
- Other

Date/Time _____ AM PM

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT

435.781.7048 OR LOVEL YOUNG AT 435.828.0986

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL

Gas Well

2. NAME OF OPERATOR:

KERR-MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR:

P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 PHONE NUMBER: 720 929-6007 Ext

4. LOCATION OF WELL**FOOTAGES AT SURFACE:**

0489 FNL 0575 FEL

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

Qtr/Qtr: NENE Section: 25 Township: 09.0S Range: 21.0E Meridian: S

5. LEASE DESIGNATION AND SERIAL NUMBER:
UO 1189 ST**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:****7. UNIT or CA AGREEMENT NAME:**
NATURAL BUTTES**8. WELL NAME and NUMBER:**
NBU 921-25B1CS**9. API NUMBER:**
43047512380000**9. FIELD and POOL or WILDCAT:**
NATURAL BUTTES**COUNTY:**
UINTAH**STATE:**
UTAH**11.**

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 12/15/2010	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'.

RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CMT W/ 28 SX READY MIX
SPUD WELL LOCATION ON DECEMBER 15, 2010 AT 13:00 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 12/16/2010

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Address: P.O. Box 173779
city DENVER
state CO zip 80217

Operator Account Number: N 2995
Phone Number: (720) 929-6100

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751237	NBU 921-25A2AS		NENE	25	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	12/15/2010			12/29/10	
Comments: MIRU PETE MARTIN BUCKET RIG. WS 7MVD SPUD WELL LOCATION ON 12/15/2010 AT 11:00 HRS. BHL = NENE							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751238	NBU 921-25B1CS		NENE	25	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	2900	12/15/2010			12/29/10	
Comments: MIRU PETE MARTIN BUCKET RIG. WS 7MVD SPUD WELL LOCATION ON 12/15/2010 AT 13:00 HRS. BHL = NWNE							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

RECEIVED

DEC 20 2010

ANDY LYTLE

Name (Please Print)

Signature

REGULATORY ANALYST

12/16/2010

Title

Date

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDY NOTICES AND REPORTS ON WELLS

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1. TYPE OF WELL

Gas Well

2. NAME OF OPERATOR:

KERR-MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR:

P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 PHONE NUMBER: 720 929-6515 Ext

4. LOCATION OF WELL**FOOTAGES AT SURFACE:**

0489 FNL 0575 FEL

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

Qtr/Qtr: NENE Section: 25 Township: 09.0S Range: 21.0E Meridian: S

5. LEASE DESIGNATION AND SERIAL NUMBER:
UO 1189 ST**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:****7. UNIT or CA AGREEMENT NAME:**
NATURAL BUTTES**8. WELL NAME and NUMBER:**
NBU 921-25B1CS**9. API NUMBER:**
43047512380000**9. FIELD and POOL or WILDCAT:**
NATURAL BUTTES**COUNTY:**
UINTAH**STATE:**
UTAH**11.**

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> Casing Repair
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/6/2011	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU CAPSTAR AIR RIG #310 ON FEBRUARY 3, 2011. DRILLED 11" SURFACE HOLE TO 2650'. RAN 8 5/8" 28# IJ-55 SURFACE CSG. PUMP 30 BBLS SPACED

LEAD CEMENT W/ 200 SX CLASS G PREM @ 11.0 PPG, 3.83 YD. TAILED CEMENT W/ 225 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. DROP PLUG ON THE FLY, DISPLACED W/ 154 BBLS WATER. LOST RETURNS 130 BBLS INTO DISPLACEMENT/ BUMP PLUG @ 810 PSI; FINAL LIFT 520 PSI. FLOATS HELD W/ .5 BBL BACK. PUMP 350 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. CEMENT TO SURFACE. WORT.

Accepted by the
Utah Division of
Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 2/7/2011

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# Ensign 139
Submitted By KENNY MORRIS Phone Number
435- 828-0984
Well Name/Number NBU-921-25B1CS
Qtr/Qtr NENE Section 25 Township 9S Range 21E
Lease Serial Number UO1189 ST
API Number 43047512380000

Casing – Time casing run starts, not cementing times.

- Production Casing
 Other

RECEIVED

Date/Time – AM PM

MAR 22 2011

DIV. OF OIL, GAS & MINING

BOPE

- Initial BOPE test at surface casing point
 Other

Date/Time 3/19/2011 06:00 AM PM

Rig Move

Location To: _____

Date/Time AM PM

Remarks _____

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# Ensign 139

Submitted By KENNY MORRIS Phone Number
435- 828-0984

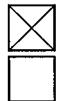
Well Name/Number NBU-921-25B1CS

Qtr/Qtr NENE Section 25 Township 9S Range 21E

Lease Serial Number UO1189 ST

API Number 43047512380000

Casing – Time casing run starts, not cementing times.



Production Casing

Other

Date/Time 3/25/2011

12:00 AM PM

BOPE



Initial BOPE test at surface casing point

Other

Date/Time 3/19/2011

06:00 AM PM

RECEIVED

Rig Move

Location To: NBU 921-25G2AS

DIV. OF OIL, GAS & MINING

Date/Time 3/27/2011

07:00 AM PM

Remarks WILL MOVE RIG THIS WEEKEND TO NBU 921-25H
PAD WITH BOP TEST NOTICE TO
FOLLOW

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1189 ST
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Gas Well		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		8. WELL NAME and NUMBER: NBU 921-25B1CS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047512380000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0489 FNL 0575 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 25 Township: 09.0S Range: 21.0E Meridian: S		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		COUNTY: UINTAH
TYPE OF SUBMISSION <ul style="list-style-type: none"> <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 3/26/2011 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date: 		TYPE OF ACTION <ul style="list-style-type: none"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change Well Name <input type="checkbox"/> Convert Well Type <input type="checkbox"/> New Construction <input type="checkbox"/> Plug Back <input type="checkbox"/> Recomplete Different Formation <input type="checkbox"/> Temporary Abandon <input type="checkbox"/> Water Disposal <input type="checkbox"/> APD Extension <p>OTHER: <input type="text" value="RIG REL. - ACTS PIT"/></p>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU ROTARY RIG. FINISHED DRILLING FROM 2650' TO 9820' ON MARCH 24, 2011. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING TO 9566'. RAN 4 1/2" 11.6# P110 CSG FROM 9566' TO 9785'. CEMENTED PRODUCTION CASING Accepted by the RELEASE ENSIGN RIG 139 ON MARCH 26, 2011 @ 12:00 HRS. DETAILS OF Utah Division of CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES. THE PIT ON LOCATION WILL BE REFURBISHED AND UTILIZED AS PART OF THE ACTS SYSTEM. FOR RECORD ONLY		
NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 3/28/2011	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1189 ST
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Gas Well		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		8. WELL NAME and NUMBER: NBU 921-25B1CS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047512380000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0489 FNL 0575 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 25 Township: 09.0S Range: 21.0E Meridian: S		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		COUNTY: UINTAH
TYPE OF SUBMISSION <ul style="list-style-type: none"> <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 5/13/2011 		TYPE OF ACTION <ul style="list-style-type: none"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION <p>OTHER: <input type="text"/></p>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 05/13/2011 AT 12:00 PM. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 5/17/2011	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:
UO 1189 ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME
UTU63047A

8. WELL NAME and NUMBER:
NBU 921-25B1CS

9. API NUMBER:
4304751238

10 FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE,
MERIDIAN:
NENE 25 9S 21E S

12. COUNTY
UINTAH

13. STATE
UTAH

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL:	OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>	DRY <input type="checkbox"/>	OTHER _____	7. UNIT or CA AGREEMENT NAME UTU63047A						
b. TYPE OF WORK:	NEW WELL <input checked="" type="checkbox"/>	HORIZ. LATS. <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	RE-ENTRY <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	OTHER _____	8. WELL NAME and NUMBER: NBU 921-25B1CS				
2. NAME OF OPERATOR:	KERR MCGEE OIL & GAS ONSHORE, L.P.					9. API NUMBER: 4304751238					
3. ADDRESS OF OPERATOR:	P.O.BOX 173779	CITY DENVER	STATE CO	ZIP 80217	PHONE NUMBER: (720) 929-6100	10 FIELD AND POOL, OR WILDCAT NATURAL BUTTES					
4. LOCATION OF WELL (FOOTAGES)	BHL reviewed by Hsm AT SURFACE: NENE 489 FNL 575 FEL S25, T9S, R21E AT TOP PRODUCING INTERVAL REPORTED BELOW: NWNE 394 FNL 1695 FEL S25, T9S, R21E AT TOTAL DEPTH: NWNE 432 FNL 1685 FEL S25, T9S, R21E					11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 25 9S 21E S					
14. DATE SPUNDED:	15. DATE T.D. REACHED:	16. DATE COMPLETED:	ABANDONED <input type="checkbox"/>	READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): 4899 GL						
12/15/2010	3/24/2011	5/13/2011									
18. TOTAL DEPTH: MD 9,820 TVD 9,658	19. PLUG BACK T.D.: MD 9,753 TVD 9,591	20. IF MULTIPLE COMPLETIONS, HOW MANY? *	21. DEPTH BRIDGE MD PLUG SET: TVD								
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) CBL-CHI TRIPLE COMBO			23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/>	(Submit analysis) (Submit report) (Submit copy)							
24. CASING AND LINER RECORD (Report all strings set in well)											
HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED		
20"	14" STL	36.7#		40		28					
11"	8 5/8" IJ-55	28#		2,637		775		0			
7 7/8"	4 1/2" I-80	11.6#		9,580		1,603		920			
7 7/8"	4 1/2" P110	11.6#	9,580	9,799							
26. TUBING RECORD											
SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)			
2 3/8"	9,109										
26. PRODUCING INTERVALS					27. PERFORATION RECORD						
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS			
(A) MESAVERDE	7,603	9,628			7,603 9,628	0.36	190	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>			
(B) WSMVD								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.											
RECEIVED											
DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL										
7603 - 9628	PUMP 11,573 BBLS SLICK H2O & 252,161 LBS SAND								JUN 23 2011		
									DIV. OF OIL, GAS & MINING		
29. ENCLOSED ATTACHMENTS:									30. WELL STATUS:		
<input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION				<input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> CORE ANALYSIS				<input type="checkbox"/> DST REPORT <input type="checkbox"/> OTHER: _____		<input checked="" type="checkbox"/> DIRECTIONAL SURVEY	PROD

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 5/13/2011	TEST DATE: 5/21/2011	HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 1,636	WATER - BBL: 492	PROD. METHOD: FLOWING		
CHOKE SIZE: 20/64	TBG. PRESS. 575	CSG. PRESS. 875	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 1,636	WATER - BBL: 492	INTERVAL STATUS: PROD

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:		
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:		
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:		
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,524				
BIRD'S NEST	1,833				
MAHOGANY	2,225				
WASATCH	4,900	7,600			
MESAVERDE	7,600	9,820	TD		

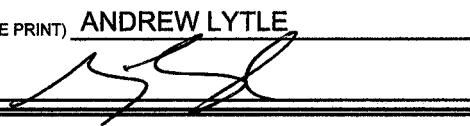
35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the chronological well history, perforation report and final survey. Completion chrono details individual frac stages. The rig release sundry submitted 3/28/11 stated the I-80 csg went to 9566' & the P110 csg went to 9785'; these depths did not include the kelly bushing which is why they each are 14' less than the depths reported on this completion report.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) ANDREW LYTLE

TITLE REGULATORY ANALYST

SIGNATURE 

DATE 6-16-2011

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

RECEIVED

JUN 23 2011

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25B1CS [BLUE]		Spud Conductor: 12/15/2010			Spud Date: 2/4/2011			
Project: UTAH-UINTAH		Site: NBU 921-25A PAD			Rig Name No: ENSIGN 139/139, CAPSTAR 310/310			
Event: DRILLING		Start Date: 12/7/2010			End Date: 3/26/2011			
Active Datum: RKB @4,913.00ft (above Mean Sea Level)			UWI: NE/NE/0/9/S/21/E/25/0/0/26/PM/N/489/E/0/575/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/3/2011	20:00 - 0:00	4.00	MIRU	21	C	P		WAIT ON DAY LIGHT TO MOVE RIG
2/4/2011	0:00 - 7:00	7.00	MIRU	21	C	P		WAIT ON DAYLIGHT TO MOVE
	7:00 - 11:30	4.50	MIRU	01	C	P		SKID RIG & RIG UP
	11:30 - 13:00	1.50	PRPSPD	14	A	P		WELD ON CONDUCTOR & RIG UP FLOW LINE
	13:00 - 15:30	2.50	PRPSPD	06	A	P		PICK UP MUD MOTOR & 11" BIT
	15:30 - 17:00	1.50	DRLSUR	02	B	P		SPUD 11" SURFACE HOLE F/ 40'- 223' // ROP= 122 FPH // WOB= 16-18K // RPM= 55/96 // SPP= 850/500 // GPM= 600
	17:00 - 19:30	2.50	DRLSUR	06	A	P		TOOH & PU DIR TOOLS
	19:30 - 0:00	4.50	DRLSUR	02	D	P		DIR DRLG 11" SURFACE HOLE F/ 223'- 736' // ROP= 114 FPH // WOB= 18-22K // RPM= 55/96 // SPP= 1052/890 // GPM= 600 // NO LOSSES // LAST SURVEY @ 676'= 7.81 DEG- 290.78 AZ
2/5/2011	0:00 - 3:00	3.00	DRLSUR	02	D	P		DIR DRLG 11" SURFACE HOLE F/ 736'-1179' // ROP= 140 FPH // WOB= 18-22K // RPM= 55/96 // SPP= 1052/890 // GPM= 600 // NO LOSSES
	3:00 - 4:00	1.00	DRLSUR	08	B	Z		REPLACE SWAB & LINER ON #2 PUMP
	4:00 - 15:00	11.00	DRLSUR	02	D	P		DIR DRLG 11" SURFACE HOLE F/ 1179'-2414' // ROP= 112 FPH // WOB= 18-22K // RPM= 55/96 // SPP= 1380/ 1120 // GPM= 600 // NO LOSSES
	15:00 - 15:30	0.50	DRLSUR	07	A	P		SERVICE RIG & EQUIPMENT
	15:30 - 17:30	2.00	DRLSUR	02	D	P		DIR DRLG 11" SURFACE HOLE F/ 2414'- 2650' // ROP= 118 FPH // WOB= 18-22K // RPM= 55/96 // SPP= 1380/ 1120 // GPM= 600 // NO LOSSES // LAST SURVEY @ 2590'= 17.45 DEG- 274.86 AZ // 78.3% ROTATE- 21.7% SLIDE
	17:30 - 18:00	0.50	DRLSUR	05	A	P		CIRC & COND HOLE FOR 8.625" CSG
	18:00 - 23:30	5.50	DRLSUR	06	A	P		LD DRILLSTRING & DIR TOOLS
	23:30 - 0:00	0.50	CSG	12	C	P		PJSM // START RUNNING 8.625" CSG
2/6/2011	-		CSG					SPUD DATE/TIME: 2/4/2011 15:30
								SURFACE HOLE: Surface From depth: 40 Surface To depth: 2,650 Total SURFACE hours: 22.00 Surface Casing size: 8 5/8 # of casing joints ran: 59 Casing set MD: 2,632.0 # sx of cement: 200/225/350 Cement blend (ppg): 11.0/15.8/15.8 Cement yield (ft3/sk): 3.83/1.15/1.15 # of bbls to surface: 0 Describe cement issues: LOST RETURNS 130 BBL'S INTO DISP. Describe hole issues: NONE
	0:00 - 4:00	4.00	CSG	12	C	P		PJSM // RUN 59 JT'S 8.625", 28#, J-55, LT&C CSG // SHOE SET @ 2630' // BAFFLE @ 2585' CIRC CSG @ 2630'
	4:00 - 4:30	0.50	CSG	05	A	P		

FEB 23 2011

FEB 23 2011

DIV OF OIL, GAS & MINING

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25B1CS [BLUE]				Spud Conductor: 12/15/2010				Spud Date: 2/4/2011							
Project: UTAH-UINTAH				Site: NBU 921-25A PAD				Rig Name No: ENSIGN 139/139, CAPSTAR 310/310							
Event: DRILLING				Start Date: 12/7/2010				End Date: 3/26/2011							
Active Datum: RKB @4,913.00ft (above Mean Sea Level)				UWI: NE/NE/0/9/S/21/E/25/0/0/26/PM/N/489/E/0/575/0/0											
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation							
4:30 - 6:30 2.00 CSG 12 E P PJSM // PUMP 30 BBL SPACER // LEAD= 200 SX CLASS G @ 3.83 YIELD & 11.0 WT // TAIL= 225 SX CLASS G @ 1.15 YIELD & 15.8 WT // DROP PLUG & DISPLACE W/ 154 BBLS WATER // LOST RETURNS 130 BBL'S INTO DISPLACEMENT // PLUG DN @ 06:12 2/6/2011 // BUMP PLUG @ 810 PSI // FINAL LIFT = 520 PSI // CHECK FLOATS -HELD W/ .5 BBL BACK //															
3/19/2011	6:30 - 7:00 0.50 CSG 14 A P CUT OFF CONDUCTOR & HANG 8.625" CSG														
	7:00 - 7:30 0.50 CSG 12 E P PUMP TOP OUT @ 350 SX CMT @ 1.15 YIELD & 15.8 WT // CMT TO SURFACE														
	7:30 - 8:00 0.50 CSG 01 E P RIG DN // RELEASE RIG @ 08:00 2/6/2011 TO THE BONANZA 1023-7N2AS														
	0:00 - 2:00 2.00 MIRU 01 C P SKID ON,RURT,														
	2:00 - 5:00 3.00 PRPSPD 09 A P CUT & SLIP DRLG LINE														
	5:00 - 7:00 2.00 PRPSPD 07 A P CHANGE OIL IN TOPDRIVE,SERVICE TD,PRE SPUD INSPECTION														
	7:00 - 11:00 4.00 PRPSPD 15 A P TEST BOP,ANNULAR 2.5K ,RAMS,CHOKE,KILLLINE & FLOOR VALVES TO 5K,CSG 1.5K F/30 MIN,250 LOWS														
	11:00 - 16:00 5.00 PRPSPD 06 A P P/U BHA#1,SCRIBE DIR TOOLS,THI,LEVEL DERRICK,THI,														
3/20/2011	16:00 - 18:00 2.00 DRLPRO 02 F P DRILL CEMENT & FE TO 2655',PLUS 20' NEW 7.875 HOLET TO 2675- F/FIT TEST,700 PSI/15 MIN ON TEST W/B&C QUIK TEST,5' FLARE BEFORE DRLG OUT FE,THI 210'														
	18:00 - 0:00 6.00 DRLPRO 02 D P DIR DRILL F/2675 TO 3480,=805,AVG 134,WOB 18,GPM560,116 STKS,PSI 1000/1500,TORQ 3/6 K,SLIDE 110' 14%,CIRC RES PIT,5' FLARE WHILE DRLG														
	0:00 - 7:00 7.00 DRLPRO 02 D P DIR DRILL F/3480 TO 4204=724,AVG 103 ,WOB 18,GPM560,116 STKS,PSI 1100/1600,TORQ 3/8 K,SLIDE 14%,CIRC RES PIT,3' FLARE WHILE DRLG														
	7:00 - 7:30 0.50 DRLPRO 07 A P RIG SERVICE														
	7:30 - 20:30 13.00 DRLPRO 02 D P DIR DRILL F/4204 TO 5733=1529,AVG 117 ,WOB 18,GPM550,116 STKS,PSI 1100/1600,TORQ 5/9 K,SLIDE 13%,CIRC RES PIT,5' FLARE WHILE DRLG														
	20:30 - 22:00 1.50 DRLPRO 05 A S LOST FULL RETURNS,PUMP 25% SWEEPS,LT MUD UP,8.7 18% LCM,REGAIN CIRC,TOTAL LOST 300 BBLS														
	22:00 - 0:00 2.00 DRLPRO 02 D P DIR DRILL F/5733 TO 5900=167 ,AVG 84 ,WOB 18,GPM 480,96 STKS,PSI 1100/1600,TORQ 5/9 K,SLIDE 10%,CIRC RES PIT,3' FLARE WHILE DRLG														
	0:00 - 11:00 11.00 DRLPRO 02 D P DIR DRILL F/5900 TO 6739=839,AVG 76 ,WOB 20,GPM 470,96 STKS,PSI 1300/1700,TORQ 5/9 K,SLIDE 2%,MW 9.4/39 8%LCM														
3/21/2011	11:00 - 11:30 0.50 DRLPRO 07 A P RIG SERVICE														
	11:30 - 0:00 12.50 DRLPRO 02 D P DIR DRILL F/6739 TO 7280=541,AVG 44,WOB 20,GPM 470,96 STKS,PSI 1600/1900,TORQ 6/10 K,SLIDE 0%,MW 9.9/37 8%LCM														
	0:00 - 13:30 13.50 DRLPRO 02 D P DIR DRILL F/7280 TO 7824=544,AVG 40 ,WOB 20,GPM 470,96 STKS,PSI 1700/2000,TORQ 6/10 K,SLIDE 2%,MW 10.4/39 10%LCM														
	13:30 - 14:00 0.50 DRLPRO 07 A P RIG SERVICE														
3/22/2011	14:00 - 0:00 10.00 DRLPRO 02 D P DIR DRILL F/7824 TO 8225=401 ,AVG 40 ,WOB 20,GPM 470,96 STKS,PSI 1700/2100,TORQ 6/10 K,SLIDE 8%,MW 10.8/ 10%LCM														
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US ROCKIES REGION

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Well: NBU 921-25B1CS [BLUE]			Spud Conductor: 12/15/2010			Spud Date: 2/4/2011		
Project: UTAH-UINTAH			Site: NBU 921-25A PAD			Rig Name No: ENSIGN 139/139, CAPSTAR 310/310		
Event: DRILLING			Start Date: 12/7/2010			End Date: 3/26/2011		
Active Datum: RKB @4,913.00ft (above Mean Sea Level)				UWI: NE/NE/0/9/S/21/E/25/0/0/26/PM/N/489/E/0/575/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/23/2011	0:00 - 8:00	8.00	DRLPRO	02	D	P		DIR DRILL F/8225 TO 8485=260 ,AVG 32,WOB 20,GPM 470,96 STKS,PSI 1700/2100,TORQ 8/13 K,SLIDE 0%,MW 11.3/40 12%LCM
	8:00 - 15:30	7.50	DRLPRO	06	A	P		FLOW CHECK ,SURVEY,PUMP OUT 5 STNDS,POOH F/BIT & MTR CHANGE,TIGHT F/5006 TO 4740',CHECK RIG LEVEL OK
	15:30 - 0:00	8.50	DRLPRO	06	A	P		P/U BHA #2,SCRIBE TOOLS TIH,FILL@1233' 3900',TIGHT SPOT IN @ 6200
3/24/2011	0:00 - 11:30	11.50	DRLPRO	02	D	P		DIR DRILL F/8485 TO 9279=794 ,AVG69 ,WOB 20,GPM 440,90 STKS,PSI 2100/2450,TORQ 8/13 K,SLIDE 4%,MW 12.1/40 15%LCM
	11:30 - 12:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	12:00 - 22:00	10.00	DRLPRO	02	D	P		DIR DRILL F/9279 TO 9820=541,AVG 50 ,WOB 20,GPM 440,90 STKS,PSI 2100/2450,TORQ 8/13 K,SLIDE 0%,MW 12.6/40 15%LCM
	22:00 - 0:00	2.00	DRLPRO	06	E	P		SHORTTRIP OUT TO 8450',PUMPOUT 10 STNDS,START BACK IN
3/25/2011	0:00 - 1:00	1.00	DRLPRO	06	E	P		FINISH SHORTTRIP,NO PROBLEMS
	1:00 - 2:00	1.00	DRLPRO	05	C	P		CIRC BTMS UP.NO FLARE
	2:00 - 16:00	14.00	DRLPRO	06	A	P		FLOW CHECK,PUMP OUT 10 STNDS,PUMPPILL & LDDP AND BHA,SHAKE OUT LCM @ SHOE,L/D BHA,PULL WEARRING
	16:00 - 19:00	3.00	EVALPR	11	E	P		MULTIFINGER LOG W/ PSI 2680 UP,REPEAT ACROSS TOP 100'
	19:00 - 0:00	5.00	CSG	12	C	P		RUN 232 JTS 11.6# BTC & 2 MARKERS TO 9798',BOTTOM 5 JTS P110,FC@9756'
3/26/2011	0:00 - 3:30	3.50	CSG	12	C	P		FINISH 4.5 BTC CSG RUN TO 9798'
	3:30 - 4:30	1.00	CSG	05	D	P		CIRC BTMS UP F/CEMENT
	4:30 - 8:00	3.50	CSG	12	E	P		SAFETY MEET W/BJ,PUMP 40 BBLS SPACER,539SX LEAD @12.6# 1.93YLD,1064SX TAIL@14.3# 1.31YLD,DISPLACE 152 BBLS CLAYFIX,FINALLIFT 2650 PSI,BUMPPLUG 500 OVER,FLOATSHELD,2 BBLS CEMENT BACK TO RES PIT
	8:00 - 12:00	4.00	RDMO	14	A	P		SET C-22 CSG SLIPS 102K CSG TENSION,NDBOP

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Project: UTAH-UINTAH		Site: NBU 921-25A PAD			Rig Name No: ENSIGN 139/139, CAPSTAR 310/310			
Event: DRILLING		Start Date: 12/7/2010			End Date: 3/26/2011			
Active Datum: RKB @4,913.00ft (above Mean Sea Level)			UWI: NE/NE/0/9/S/21/E/25/0/0/26/PM/N/489/E/0/575/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
12:00 - 12:00	0.00	RDMO						<p>CONDUCTOR CASING: Cond. Depth set: 40 Cement sx used: 28</p> <p>SPUD DATE/TIME: 2/4/2011 15:30</p> <p>SURFACE HOLE: Surface From depth: 40 Surface To depth: 2,650 Total SURFACE hours: 22.00 Surface Casing size: 8 5/8 # of casing joints ran: 59 Casing set MD: 2,632.0 # sx of cement: 200/225/200 Cement blend (ppg): 15.8 Cement yield (ft³/sk): 1.15 # of bbls to surface: 0 Describe cement issues: LOST RETURNS 130 BBL INTO DISP Describe hole issues: NA</p> <p>PRODUCTION: Rig Move/Skid start date/time: 3/19/2011 0:00 Rig Move/Skid finish date/time: 3/19/2011 2:00 Total MOVE hours: 2.0 Prod Rig Spud date/time: 3/19/2011 16:00 Rig Release date/time: 3/26/2011 12:00 Total SPUD to RR hours: 164.0 Planned depth MD 9,830 Planned depth TVD 9,664 Actual MD: 9,820 Actual TVD: 9,658 Open Wells \$: AFE \$: Open wells \$/ft:</p> <p>PRODUCTION HOLE: Prod. From depth: 2,655 Prod. To depth: 9,820 Total PROD hours: 104.5 Log Depth: 2600 Float Collar Top Depth: 9756 Production Casing size: 4.5 P110 & I-80 BTC 11.6# # of casing joints ran: 232 & 2 MARKERS Casing set MD: 9,798.0 Stage 1 # sx of cement: 539 LEAD 1064 TAIL Cement density (ppg): 12.6/14.3 Cement yield (ft³/sk): 1.93/1.31 Stage 2 # sx of cement: Cement density (ppg): Cement yield (ft³/sk): Top Out Cmt # sx of cement: Cement density (ppg): Cement yield (ft³/sk): Est. TOC (Lead & Tail) or 2 Stage : 4220/0 Describe cement issues: 2 BBL CEMENT TO RES PIT Describe hole issues: 15%LCM F/5700,12.6 WT</p>
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US ROCKIES REGION**Operation Summary Report**

Well: NBU 921-25B1CS [BLUE]	Spud Conductor: 12/15/2010	Spud Date: 2/4/2011						
Project: UTAH-UINTAH	Site: NBU 921-25A PAD	Rig Name No: ENSIGN 139/139, CAPSTAR 310/310						
Event: DRILLING	Start Date: 12/7/2010	End Date: 3/26/2011						
Active Datum: RKB @4,913.00ft (above Mean Sea Level)		UWI: NE/NE/0/9/S/21/E/25/0/0/26/PM/N/489/E/0/575/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								Max angle: 22.74@1914 Departure: 1136' Max dogleg MD: 3.55@2200'

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US ROCKIES REGION

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1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 921-25B1CS [BLUE]		
Common Name	NBU 921-25B1CS		
Well Name	NBU 921-25B1CS	Wellbore No.	OH
Report No.	1	Report Date	5/9/2011
Project	UTAH-UINTAH	Site	NBU 921-25A PAD
Rig Name/No.		Event	COMPLETION
Start Date	5/9/2011	End Date	5/13/2011
Spud Date	2/4/2011	Active Datum	RKB @4,913.00ft (above Mean Sea Level)
UWI	NE/NE/0/9/S/21/E/25/0/0/26/PM/N/489/E/0/575/0/0		

1.3 General

Contractor	CUTTERS WIRELINE	Job Method	PERFORATE	Supervisor	DAVE DANIELS
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

1.4 Initial Conditions

1.5 Summary

Fluid Type		Fluid Density		Gross Interval	7,603.0 (ft)-9,628.0 (ft)	Start Date/Time	5/9/2011 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	33	End Date/Time	5/9/2011 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	190	Net Perforation Interval	56.00 (ft)
Hydrostatic Press		Press Difference		Avg Shot Density	3.39 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun

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US ROCKIES REGION

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2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	MESAVERDE/			7,603.0	7,604.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,628.0	7,630.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,656.0	7,660.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,749.0	7,750.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,779.0	7,780.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,800.0	7,801.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,859.0	7,861.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,902.0	7,904.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,004.0	8,006.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,104.0	8,106.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,182.0	8,185.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,256.0	8,258.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,280.0	8,282.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,343.0	8,344.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,386.0	8,388.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,572.0	8,574.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,652.0	8,654.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,720.0	8,723.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,850.0	8,851.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,908.0	8,909.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,949.0	8,950.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/Reservoir	CCL@(ft)	CCL-TS(ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	MESAPERDE/			8,972.0	8,973.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAPERDE/			9,000.0	9,001.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAPERDE/			9,070.0	9,072.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAPERDE/			9,152.0	9,153.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAPERDE/			9,180.0	9,182.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAPERDE/			9,308.0	9,310.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAPERDE/			9,330.0	9,332.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAPERDE/			9,448.0	9,450.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAPERDE/			9,491.0	9,492.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAPERDE/			9,511.0	9,512.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAPERDE/			9,602.0	9,603.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAPERDE/			9,626.0	9,628.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

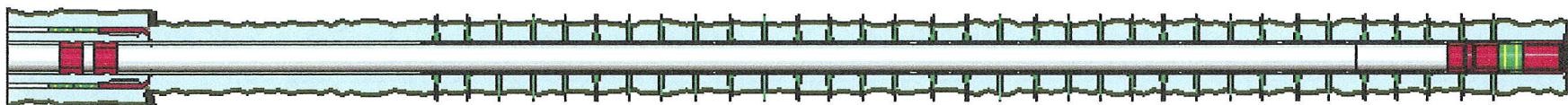
3 Plots

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3.1 Wellbore Schematic

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Project: UTAH-UINTAH		Site: NBU 921-25A PAD			Rig Name No: MILES 3/3			
Event: COMPLETION		Start Date: 5/9/2011			End Date: 5/13/2011			
Active Datum: RKB @4,913.00ft (above Mean Sea Level)			UWI: NE/NE/0/9/S/21/E/25/0/0/26/PM/N/489/E/0/575/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
5/6/2011	7:00 - 17:00	10.00	COMP	47	B	P		HSM, PRESSURE TESTING, MIRU B&C TESTERS, LOCK OPEN SURFACE CSG, P/T CSG & FRAC VALVES, PRESSURE TO 1000# LOST 12# IN 15 MIN, PRESSURE TO 3500# LOST 38# IN 15 MIN, PRESSURE TO 7000# LOST 81# IN 30 MIN. BUMP PRESSURE BACK UP TO 7000# LOST 32# IN 30 MIN. [GOOD TEST]
5/9/2011	7:00 - 8:00	1.00	COMP	48		P		MIRU CUTTERS WIRE LINE, P/U RIH W/ 3-1/8 EXPEND, 23 GRM, 0.36:" HOLE, PERF MESAVERDE 9,448-9,628' [24 HOLES] READY TO START FRAC MON. HSM, RIGGING UP & PRESSURE TESTING. P/T SURFACE LINE TO 7,945#, TEST MANUAL POPOFF, @=7,150#, RESET TESTED & POPPED OFF @=6,850#

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Event: COMPLETION		Start Date: 5/9/2011			End Date: 5/13/2011			
Active Datum: RKB @4,913.00ft (above Mean Sea Level)			UWI: NE/NE/0/9/S/21/E/25/0/0/26/PM/N/489/E/0/575/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8:00	- 18:00	10.00	COMP	36	E	P		FRAC STG #1 MESAVERDE 9,488'-9,628'
FRAC STG #1] WHP=1,752#, BRK DN PERFS=3,473#, @=4.5 BPM, INJ RT=48.9, INJ PSI=6,043#, ISIP=2,763#, FG=.73, PUMP'D 1,296 BBLS SLK WTR W/ 18,781# 30/50 MESH W/ 5,200# RESIN COAT IN TAIL W/ 23,981# TOTAL PROP PUMP'D, ISIP=2,926#, FG=.75, AR=45.2, AP=5,873#, MR=50.8, MP=6,702#, NPI=163#, 20/24 CALC PERFS OPEN. 85%.								
PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=9,362', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 9,152'-9,332' [24 HOLES]								
FRAC STG #2] WHP=824#, BRK DN PERFS=2,997#, @=4.7 BPM, INJ RT=40.5, INJ PSI=6,043#, ISIP=2,523#, FG=.71, PUMP'D 1,845 BBLS SLK WTR W/ 32,924# 30/50 MESH W/ 4,930# RESIN COAT IN TAIL W/ 37,854# TOTAL PROP PUMP'D, ISIP=3,127#, FG=.78, AR=45.1, AP=5,633#, MR=49.6, MP=6,581#, NPI=604#, 14/24 CALC PERFS OPEN. 60%								
PERF STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=9,102', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 8,850'-9,072' [24 HOLES]								
FRAC STG #3] WHP=1,245#, BRK DN PERFS=2,998#, @=2.8 BPM, INJ RT=48.3, INJ PSI=5,751#, ISIP=2,460#, FG=.71, PUMP'D 2,503 BBLS SLK WTR W/ 49,462# 30/50 MESH W/ 4,986# RESIN COAT IN TAIL W/ 54,448# TOTAL PROP PUMP'D, ISIP=2,724#, FG=.74, AR=47.8, AP=5,566#, MR=49, MP=6,610#, NPI=264#, 19/24 CALC PERFS OPEN. 81%.								
PERF STG #4] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,760', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 8,572'-8,723' [23 HOLES]								
FRAC STG #4] WHP=686#, BRK DN PERFS=2,296#, @=4.8 BPM, INJ RT=48.2, INJ PSI=6,235#, ISIP=1,491#, FG=.61, PUMP'D 1,141 BBLS SLK WTR W/ 18,860# 30/50 MESH W/ 5,091# RESIN COAT IN TAIL W/ 23,951# TOTAL PROP PUMP'D, ISIP=2,577#, FG=.74, AR=48.1, AP=5,670#, MR=49.1, MP=6,580#, NPI=1,086#, 14/23 CALC PERFS OPEN. 60%.								
PERF STG #5] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,422', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 8,256'-8,388' [24 HOLES]								
FRAC STG #5] WHP=237#, BRK DN PERFS=2,758#, @=3.8 BPM, INJ RT=46.5, INJ PSI=5,942#, ISIP=1,486#, FG=.62, PUMP'D 701 BBLS SLK WTR W/ 8,226# 30/50 MESH W/ 5,098# RESIN COAT IN TAIL W/ 13,324# TOTAL PROP PUMP'D, ISIP=2,379#, FG=.72, AR=49.4, AP=6,190#, MR=50.8, MP=6,613#, NPI=893#, 14/24								

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DIV. OF OIL, GAS & MINING

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25B1CS [BLUE]				Spud Conductor: 12/15/2010			Spud Date: 2/4/2011		
Project: UTAH-UINTAH				Site: NBU 921-25A PAD			Rig Name No: MILES 3/3		
Event: COMPLETION				Start Date: 5/9/2011				End Date: 5/13/2011	
Active Datum: RKB @4,913.00ft (above Mean Sea Level)				UWI: NE/NE/0/9/S/21/E/25/0/0/26/PM/N/489/E/0/575/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
								CALC PERFS OPEN.	60%
5/10/2011	6:45 - 7:00	0.25	COMP	48		P		PERF STG #6] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,215', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 8,004'-8,185' [23 HOLES] SWIFN.	
	7:00 - 14:00	7.00	COMP	36	E	P		HSM, FRACING / WEATHER FRAC STG #6 8,004'-8,185' [23 HOLES]	
								FRAC STG #6] WHP=1,410#, BRK DN PERFS=2,418#, @=4 BPM, INJ RT=50, INJ PSI=5,825#, ISIP=1,779#, FG=.73, PUMP'D 900 BBLS SLK WTR W/ 15,156# 30/50 MESH W/ 3,311# RESIN COAT IN TAIL W/ 18,467# TOTAL PROP PUMP'D, ISIP=2,360#, FG=.73, AR=47.6, AP=5,302#, MR=50.4, MP=6,303#, NPI=381# 17/23 CALC PERFS OPEN. 70%	
								PERF STG #7] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,932', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 7,749'-7,904' [24 HOLES]	
								FRAC STG #7] WHP=532#, BRK DN PERFS=1,814#, @=3.3 BPM, INJ RT=43.4, INJ PSI=6,293#, ISIP=863#, FG=.55, PUMP'D 2,033 BBLS SLK WTR W/ 37,988# 30/50 MESH W/ 4,854# RESIN COAT IN TAIL W/ 42,876# TOTAL PROP PUMP'D, ISIP=2,007#, FG=.70, AR=47.2, AP=5,748#, MR=50.4, MP=6,628#, NPI=1,144#, 14/24 CALC PERFS OPEN. 60%	
								PERF STG #8] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,690', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 7,603'-7,660' [24 HOLES]	
								FRAC STG #8] WHP=1,748#, BRK DN PERFS=2,106#, @=4.6 BPM, INJ RT=50.1, INJ PSI=5,928#, ISIP=1,830#, FG=.68, PUMP'D 1,154 BBLS SLK WTR W/ 31,841# 30/50 MESH W/ 5,453# RESIN COAT IN TAIL W/ 37,294# TOTAL PROP PUMP'D, ISIP=2,325#, FG=.74, AR=50.4, AP=5,569#, MR=50.9, MP=6,143#, NPI=495#, 16/24 CALC PERFS OPEN. 68%.	
5/12/2011	7:00 - 7:15	0.25	COMP	48		P		P/U RIH W/ HALIBURTON PLUG SET FOR TOP KILL @=7,553' RDMO	
	7:15 - 11:30	4.25	COMP	30	A	P		11,573 TOTAL BBLS 252,161# TOTAL SAND 1,076 GALS SCALE INHIB 208 GALS BIOCIDE JSA- RDSU. RUSU. ND/NU. PU TBG. RDSU. ROAD RIG AND EQUIP FROM 922-29J PAD. RUSU. ND WH. NU BOP. RU FLOOR AND TBG EQUIP.	
	11:30 - 17:00	5.50	COMP	31	I	P		SPOT TBG TRAILER. MU 3-7/8" BIT, POBS, AND 1.87" XN. RIH AS MEAS AND PU 2-3/8" L-80 TBG. TAG AT 7542' W/ #238. LD 1-JT. RU DRLG EQUIP. HAVE 237-JTS IN, EOT AT 7513'. FILL TBG AND PRES TEST TO 3000#. GOOD. SDFN	
5/13/2011	7:00 - 7:15	0.25	COMP	48		P		JSA- D/O PLUGS. C/O PBTD. MAKE CONN. PUMP PRESSURE.	

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5/12/2011	7:00 - 7:15	0.25	COMP	48		P		11,573 TOTAL BBLS 252,161# TOTAL SAND 1,076 GALS SCALE INHIB 208 GALS BIOCIDE JSA- RDSU. RUSU. ND/NU. PU TBG. RDSU. ROAD RIG AND EQUIP FROM 922-29J PAD. RUSU. ND WH. NU BOP. RU FLOOR AND TBG EQUIP.	
	7:15 - 11:30	4.25	COMP	30	A	P		SPOT TBG TRAILER. MU 3-7/8" BIT, POBS, AND 1.87" XN. RIH AS MEAS AND PU 2-3/8" L-80 TBG. TAG AT 7542' W/ #238. LD 1-JT. RU DRLG EQUIP. HAVE 237-JTS IN, EOT AT 7513'. FILL TBG AND PRES TEST TO 3000#. GOOD. SDFN	
	11:30 - 17:00	5.50	COMP	31	I	P		JSA- D/O PLUGS. C/O PBTD. MAKE CONN. PUMP PRESSURE.	

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25B1CS [BLUE]		Spud Conductor: 12/15/2010			Spud Date: 2/4/2011			
Project: UTAH-UINTAH		Site: NBU 921-25A PAD			Rig Name No: MILES 3/3			
Event: COMPLETION		Start Date: 5/9/2011			End Date: 5/13/2011			
Active Datum: RKB @4,913.00ft (above Mean Sea Level)			UWI: NE/NE/0/9/S/21/E/25/0/0/26/PM/N/489/E/0/575/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 15:30	8.25	COMP	44	C	P		EST CIRC AND D/O PLUGS.
								#1- C/O 25' SAND TO CBP AT 7553'. D/O IN 11 MIN. 600# INC. FCP 0#. RIH. #2- C/O 30' SAND TO CBP AT 7690'. D/O IN 6 MIN. 300# INC. FCP 0#. RIH. #3- C/O 120' SAND TO CBP AT 7932'. D/O IN 4 MIN. 300# INC. FCP 0#. RIH. #4- C/O 30' SAND TO CBP AT 8215'. D/O IN 5 MIN. 200# INC. FCP 400#. RIH. #5- C/O 34' SAND TO CBP AT 8422'. D/O IN 6 MIN. 200# INC. FCP 250#. RIH. #6- C/O 37' SAND TO CBP AT 8760'. D/O IN 6 MIN. 500# INC. FCP 350#. RIH. #7- C/O 30' SAND TO CBP AT 9102'. D/O IN 6 MIN. 500# INC. FCP 400#. RIH. #8- C/O 30' SAND TO CBP AT 9362'. D/O IN 6 MIN. 200# INC. FCP 400#. RIH. PBTD- C/O 75' SAND TO PBTD AT 9729' (101' RATHOLE) W/ 307-JTS IN. CIRC CLEAN.
								RD PWR SWIVEL. POOH AS LD 20-JTS TBG. PU 4" 10K HANGER. LUB IN AND LAND 287-JTS 2-3/8" L-80 W/ EOT AT 9108.80'. RD FLOOR. ND BOP. NU WH. POBS AT 2900#. SITP 950, SICP 1700. SURFACE CSG OPEN (SURFACE CSG HAD SMALL AMOUNT OF BLOW AND DRLG MUD AS D/O PLUGS, THEN QUIT). HOOK UP TO HAL 9000 AND TURN OVER TO FBC AND SALES. RDSU.
								TBG DETAIL KB 14.00 4" 10K HANGER .83 287-JTS 2-3/8" L-80 9091.77 1.87" XN FE POBS 2.20 EOT 9108.80
								315-JTS DELIVERED, 28-JTS RETURNED
								TWTR 11,573 / TWR 2100 / LTR 9473 WELL TURNED TO SALES @ 1200 HR ON 5/13/11 - 560 MCFD, 2040 BWPD, CP 1700#, FTP 1600#, CK 20/64"
5/14/2011	12:00 - 10:00		PROD	50				7 AM FLBK REPORT: CP 2350#, TP 1900#, 20/64" CK, 55 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 3270 BBLS LEFT TO RECOVER: 8303
5/15/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2300#, TP 1900#, 20/64" CK, 40 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 4375 BBLS LEFT TO RECOVER: 7198
5/16/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2400#, TP 1850#, 20/64" CK, 36 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 5291 BBLS LEFT TO RECOVER: 6282
5/17/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2700#, TP 1800#, 20/64" CK, 27 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 6064 BBLS LEFT TO RECOVER: 5509

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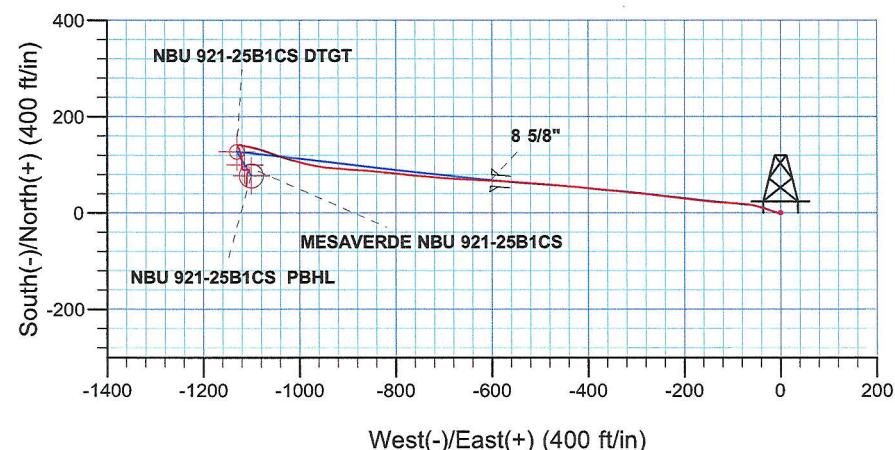
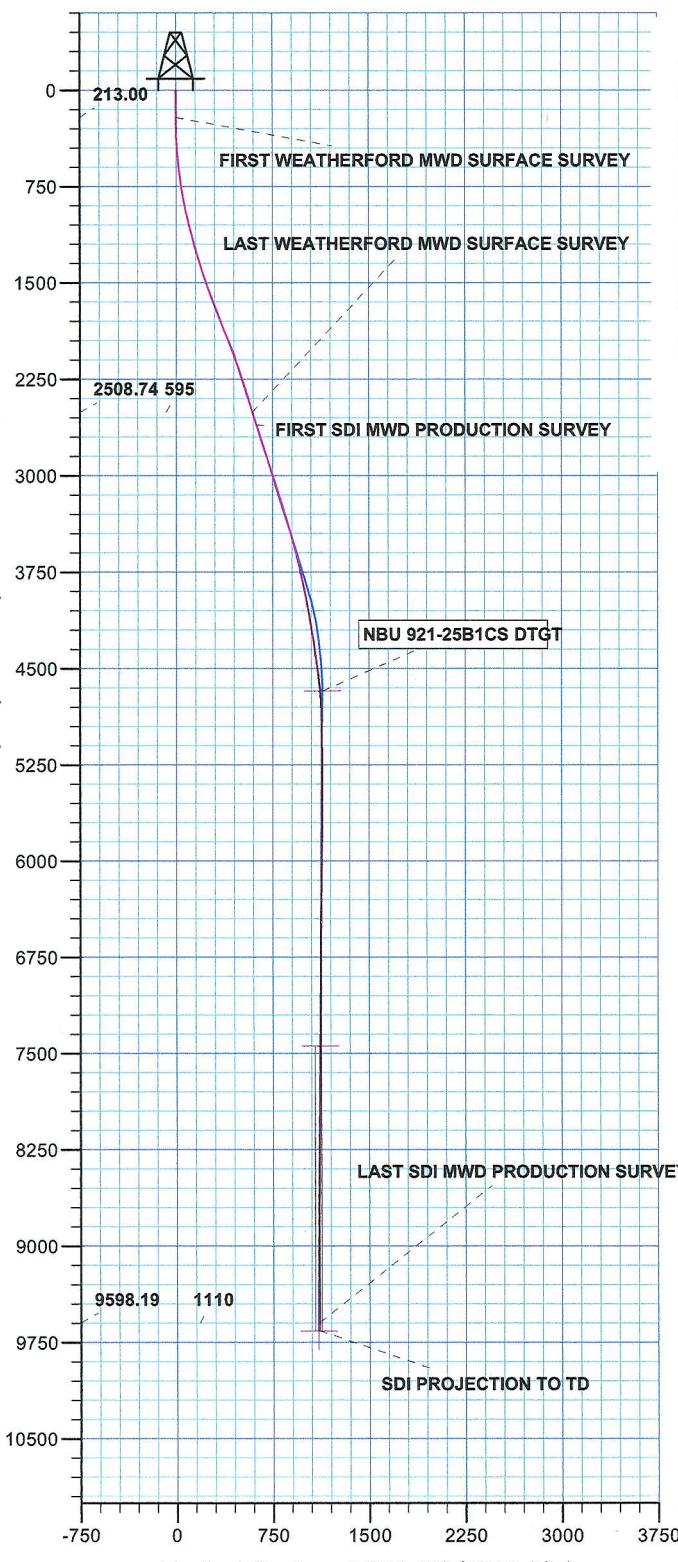
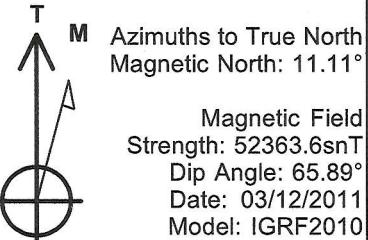
Scientific Drilling
Rocky Mountain Operations

Project: Uintah County, UT
Site: NBU 921-25A Pad
Well: NBU 921-25B1CS
Wellbore: OH
Design: OH

Anadarko
Petroleum Corporation

WELL DETAILS: NBU 921-25B1CS
GL 4899' & RKB 14' @ 4913.00ft (ENSIGN 139)

+N/S 0.00	+E/W 0.00	Northing 14534326.80	Easting 2062662.54	Latitude 40° 0' 46.559 N	Longitude 109° 29' 31.340 W
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PROJECT DETAILS: Uintah County, UT UTM12	
Geodetic System: Universal Transverse Mercator (US Survey Feet)	
Datum:	NAD 1927 - Western US
Ellipsoid:	Clarke 1866
Zone:	Zone 12N (114 W to 108 W)
Location:	SEC 25 T9S R21E
System Datum:	Mean Sea Level

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Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 921-25A Pad
NBU 921-25B1CS

OH

Design: OH

Standard Survey Report

08 April, 2011

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Company:	Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference:	Well NBU 921-25B1CS
Project:	Uintah County, UT UTM12	TVD Reference:	GL 4899' & RKB 14' @ 4913.00ft (ENSIGN 139)
Site:	NBU 921-25A Pad	MD Reference:	GL 4899' & RKB 14' @ 4913.00ft (ENSIGN 139)
Well:	NBU 921-25B1CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM5000-Roberts-Local

Project	Uintah County, UT UTM12	System Datum:	Mean Sea Level
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US	System Datum:	Mean Sea Level
Map Zone:	Zone 12N (114 W to 108 W)	System Datum:	Mean Sea Level

Site	NBU 921-25A Pad, SEC 25 T9S R21E				
Site Position:		Northing:	14,534,327.34 usft	Latitude:	40° 0' 46.562 N
From:	Lat/Long	Easting:	2,062,672.61 usft	Longitude:	109° 29' 31.211 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.97 °

Well	NBU 921-25B1CS, 489' FNL 565' FEL				
Well Position	+N-S	0.00 ft	Northing:	14,534,326.80 usft	Latitude:
	+E-W	0.00 ft	Easting:	2,062,662.53 usft	Longitude:
Position Uncertainty	0.00 ft		Wellhead Elevation:	ft	Ground Level:

Wellbore	OH	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
		IGRF2010	03/12/2011	11.11	65.89	52,364

Design	OH
Audit Notes:	
Version:	1.0
Phase:	ACTUAL
Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)
	+N-S (ft)
	0.00
	+E-W (ft)
	0.00
	Direction (°)
	276.47

Survey Program	Date	04/08/2011	
From (ft)	To (ft)	Survey (Wellbore)	Tool Name
10.00	2,600.00	Survey #1 WFT MWD SURFACE (OH)	MWD
2,701.00	9,820.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00
213.00	0.48	228.84	213.00	-0.56	-0.64	0.57	0.24	0.24	0.00
FIRST WEATHERFORD MWD SURFACE SURVEY									
306.00	1.75	289.40	305.98	-0.34	-2.27	2.22	1.69	1.37	65.12
400.00	2.81	275.53	399.91	0.35	-5.92	5.92	1.26	1.13	-14.76
495.00	3.94	289.53	494.74	1.67	-11.31	11.43	1.46	1.19	14.74
590.00	5.75	288.28	589.40	4.25	-18.91	19.27	1.91	1.91	-1.32
686.00	7.81	290.78	684.72	8.08	-29.58	30.30	2.17	2.15	2.60
781.00	9.38	287.03	778.65	12.63	-43.01	44.16	1.75	1.65	-3.95

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-25A Pad
Well: NBU 921-25B1CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-25B1CS
TVD Reference: GL 4899' & RKB 14' @ 4913.00ft (EN SIGN 139)
MD Reference: GL 4899' & RKB 14' @ 4913.00ft (EN SIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey											
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)		
876.00	10.88	279.78	872.17	16.43	-59.25	60.73	2.07	1.58	-7.63		
971.00	12.25	273.28	965.24	18.53	-78.15	79.74	1.99	1.44	-6.84		
1,065.00	13.88	276.03	1,056.81	20.28	-99.32	100.98	1.86	1.73	2.93		
1,160.00	15.19	273.03	1,148.77	22.14	-123.08	124.79	1.59	1.38	-3.16		
1,255.00	16.19	276.78	1,240.23	24.36	-148.67	150.46	1.50	1.05	3.95		
1,351.00	17.69	277.15	1,332.06	27.75	-176.43	178.43	1.57	1.56	0.39		
1,446.00	18.13	276.53	1,422.46	31.23	-205.44	207.65	0.50	0.46	-0.65		
1,540.00	18.94	276.28	1,511.58	34.56	-235.13	237.53	0.87	0.86	-0.27		
1,634.00	19.69	276.40	1,600.29	38.00	-266.03	268.62	0.80	0.80	0.13		
1,730.00	20.81	275.90	1,690.35	41.55	-299.07	301.84	1.18	1.17	-0.52		
1,825.00	21.69	275.65	1,778.89	45.01	-333.32	336.27	0.93	0.93	-0.26		
1,919.00	22.75	275.53	1,865.91	48.48	-368.70	371.82	1.13	1.13	-0.13		
2,015.00	22.38	276.53	1,954.56	52.34	-405.33	408.65	0.56	-0.39	1.04		
2,110.00	21.50	275.15	2,042.68	55.96	-440.64	444.14	1.07	-0.93	-1.45		
2,205.00	18.13	274.53	2,132.05	58.69	-472.72	476.33	3.55	-3.55	-0.65		
2,300.00	17.38	272.65	2,222.52	60.52	-501.63	505.26	0.99	-0.79	-1.98		
2,394.00	17.38	275.15	2,312.23	62.43	-529.64	533.30	0.79	0.00	2.66		
2,489.00	17.50	273.65	2,402.86	64.61	-558.03	561.75	0.49	0.13	-1.58		
2,600.00	17.45	274.86	2,508.74	67.08	-591.26	595.06	0.33	-0.05	1.09		
LAST WEATHERFORD MWD SURFACE SURVEY											
2,701.00	16.75	271.42	2,605.28	68.73	-620.90	624.69	1.22	-0.69	-3.41		
FIRST SDI MWD PRODUCTION SURVEY											
2,791.00	17.25	272.11	2,691.35	69.54	-647.20	650.92	0.60	0.56	0.77		
2,882.00	18.49	274.00	2,777.95	71.04	-675.08	678.79	1.50	1.36	2.08		
2,973.00	18.68	273.50	2,864.21	72.94	-704.02	707.76	0.27	0.21	-0.55		
3,063.00	18.21	276.01	2,949.59	75.29	-732.40	736.22	1.03	-0.52	2.79		
3,154.00	17.93	274.80	3,036.10	77.95	-760.50	764.44	0.51	-0.31	-1.33		
3,244.00	18.38	277.54	3,121.62	80.97	-788.37	792.47	1.07	0.50	3.04		
3,335.00	17.56	274.02	3,208.18	83.82	-816.29	820.53	1.50	-0.90	-3.87		
3,425.00	17.01	275.84	3,294.12	86.11	-842.93	847.26	0.86	-0.61	2.02		
3,516.00	16.83	276.19	3,381.18	88.88	-869.26	873.74	0.23	-0.20	0.38		
3,606.00	15.25	272.29	3,467.67	90.76	-894.05	898.58	2.12	-1.76	-4.33		
3,697.00	14.37	274.13	3,555.65	92.05	-917.27	921.80	1.10	-0.97	2.02		
3,787.00	13.60	277.08	3,642.98	94.16	-938.91	943.54	1.17	-0.86	3.28		
3,878.00	12.72	277.15	3,731.59	96.73	-959.47	964.26	0.97	-0.97	0.08		
3,968.00	11.79	283.27	3,819.55	100.07	-978.25	983.29	1.77	-1.03	6.80		
4,059.00	11.63	283.86	3,908.65	104.40	-996.20	1,001.62	0.22	-0.18	0.65		
4,149.00	9.72	287.84	3,997.09	108.90	-1,012.24	1,018.07	2.27	-2.12	4.42		
4,240.00	10.36	288.35	4,086.70	113.83	-1,027.32	1,033.61	0.71	0.70	0.56		
4,331.00	10.10	286.58	4,176.25	118.69	-1,042.74	1,049.47	0.45	-0.29	-1.95		
4,421.00	9.49	290.63	4,264.94	123.55	-1,057.24	1,064.43	1.02	-0.68	4.50		
4,511.00	8.68	286.77	4,353.81	128.13	-1,070.69	1,078.31	1.13	-0.90	-4.29		
4,602.00	8.82	287.95	4,443.75	132.26	-1,083.90	1,091.90	0.25	0.15	1.30		

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-25A Pad
Well: NBU 921-25B1CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-25B1CS
TVD Reference: GL 4899' & RKB 14' @ 4913.00ft (ENSIGN 139)
MD Reference: GL 4899' & RKB 14' @ 4913.00ft (ENSIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RoberS-Local

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,692.00	7.77	284.57	4,532.81	135.91	-1,096.35	1,104.69	1.29	-1.17	-3.76	
4,783.00	5.96	281.15	4,623.15	138.38	-1,106.94	1,115.49	2.04	-1.99	-3.76	
4,873.00	4.41	275.48	4,712.78	139.61	-1,114.97	1,123.60	1.81	-1.72	-6.30	
4,964.00	2.42	292.01	4,803.62	140.66	-1,120.24	1,128.95	2.42	-2.19	18.16	
5,054.00	0.88	283.54	4,893.58	141.54	-1,122.67	1,131.47	1.73	-1.71	-9.41	
5,145.00	0.72	271.42	4,984.57	141.72	-1,123.92	1,132.73	0.25	-0.18	-13.32	
5,235.00	0.66	264.40	5,074.56	141.68	-1,125.00	1,133.80	0.12	-0.07	-7.80	
5,326.00	0.59	243.45	5,165.56	141.42	-1,125.94	1,134.71	0.26	-0.08	-23.02	
5,417.00	0.50	223.08	5,256.55	140.92	-1,126.64	1,135.34	0.23	-0.10	-22.38	
5,507.00	0.83	231.84	5,346.55	140.23	-1,127.42	1,136.04	0.38	0.37	9.73	
5,598.00	0.68	212.87	5,437.54	139.37	-1,128.23	1,136.75	0.32	-0.16	-20.85	
5,688.00	0.62	148.75	5,527.54	138.50	-1,128.26	1,136.69	0.77	-0.07	-71.24	
5,779.00	0.80	153.37	5,618.53	137.52	-1,127.72	1,136.04	0.21	0.20	5.08	
5,869.00	0.95	148.34	5,708.52	136.32	-1,127.05	1,135.23	0.19	0.17	-5.59	
5,960.00	0.84	167.80	5,799.51	135.02	-1,126.51	1,134.55	0.35	-0.12	21.38	
6,050.00	1.10	145.93	5,889.49	133.66	-1,125.89	1,133.78	0.50	0.29	-24.30	
6,141.00	1.24	145.58	5,980.48	132.13	-1,124.84	1,132.57	0.15	0.15	-0.38	
6,231.00	1.00	160.61	6,070.46	130.58	-1,124.03	1,131.59	0.42	-0.27	16.70	
6,322.00	1.17	168.59	6,161.44	128.92	-1,123.59	1,130.96	0.25	0.19	8.77	
6,413.00	1.53	157.12	6,252.42	126.89	-1,122.93	1,130.08	0.49	0.40	-12.60	
6,503.00	1.69	175.10	6,342.38	124.47	-1,122.35	1,129.23	0.59	0.18	19.98	
6,593.00	1.93	166.07	6,432.34	121.67	-1,121.87	1,128.44	0.41	0.27	-10.03	
6,684.00	1.81	164.80	6,523.29	118.80	-1,121.13	1,127.37	0.14	-0.13	-1.40	
6,774.00	2.12	168.68	6,613.24	115.79	-1,120.43	1,126.34	0.37	0.34	4.31	
6,865.00	1.41	174.18	6,704.19	113.03	-1,119.98	1,125.58	0.80	-0.78	6.04	
6,955.00	1.08	167.48	6,794.17	111.10	-1,119.69	1,125.07	0.40	-0.37	-7.44	
7,046.00	1.14	181.78	6,885.15	109.36	-1,119.53	1,124.72	0.31	0.07	15.71	
7,137.00	1.19	174.45	6,976.13	107.51	-1,119.47	1,124.45	0.17	0.05	-8.05	
7,227.00	1.51	180.40	7,066.11	105.40	-1,119.38	1,124.13	0.39	0.36	6.61	
7,318.00	1.80	180.91	7,157.07	102.77	-1,119.41	1,123.86	0.32	0.32	0.56	
7,408.00	1.47	179.57	7,247.03	100.20	-1,119.43	1,123.59	0.37	-0.37	-1.49	
7,499.00	2.01	184.02	7,337.99	97.44	-1,119.53	1,123.38	0.61	0.59	4.89	
7,589.00	1.72	193.18	7,427.95	94.55	-1,119.95	1,123.47	0.46	-0.32	10.18	
7,680.00	0.42	160.20	7,518.93	92.91	-1,120.15	1,123.48	1.52	-1.43	-36.24	
7,770.00	0.72	102.75	7,608.92	92.47	-1,119.48	1,122.77	0.68	0.33	-63.83	
7,861.00	0.77	132.36	7,699.92	91.94	-1,118.48	1,121.71	0.42	0.05	32.54	
7,951.00	0.75	143.44	7,789.91	91.05	-1,117.68	1,120.82	0.16	-0.02	12.31	
8,042.00	1.24	106.37	7,880.90	90.30	-1,116.38	1,119.44	0.86	0.54	-40.74	
8,132.00	1.24	116.05	7,970.87	89.60	-1,114.57	1,117.56	0.23	0.00	10.76	
8,223.00	0.71	83.10	8,061.86	89.23	-1,113.12	1,116.09	0.83	-0.58	-36.21	
8,313.00	0.82	64.20	8,151.85	89.58	-1,111.99	1,115.00	0.30	0.12	-21.00	
8,404.00	0.90	71.18	8,242.84	90.09	-1,110.73	1,113.80	0.14	0.09	7.67	
8,495.00	0.90	63.27	8,333.83	90.65	-1,109.41	1,112.56	0.14	0.00	-8.69	
8,585.00	0.89	95.31	8,423.82	90.90	-1,108.09	1,111.27	0.55	-0.01	35.60	



Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-25A Pad
Well: NBU 921-25B1CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-25B1CS
TVD Reference: GL 4899' & RKB 14' @ 4913.00ft (EN SIGN 139)
MD Reference: GL 4899' & RKB 14' @ 4913.00ft (EN SIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,676.00	0.85	77.53	8,514.81	90.98	-1,106.72	1,109.92	0.30	-0.04	-19.54	
8,767.00	0.75	117.15	8,605.80	90.85	-1,105.53	1,108.73	0.60	-0.11	43.54	
8,857.00	0.73	113.61	8,695.80	90.35	-1,104.48	1,107.63	0.06	-0.02	-3.93	
8,948.00	1.02	203.73	8,786.79	89.38	-1,104.28	1,107.32	1.38	0.32	99.03	
9,038.00	1.85	214.96	8,876.76	87.46	-1,105.43	1,108.25	0.97	0.92	12.48	
9,129.00	2.18	214.56	8,967.70	84.83	-1,107.26	1,109.76	0.36	0.36	-0.44	
9,219.00	1.79	195.06	9,057.65	82.06	-1,108.59	1,110.78	0.86	-0.43	-21.67	
9,310.00	2.15	195.12	9,148.60	79.04	-1,109.41	1,111.25	0.40	0.40	0.07	
9,400.00	1.94	179.22	9,238.54	75.89	-1,109.83	1,111.31	0.67	-0.23	-17.67	
9,491.00	2.06	177.74	9,329.48	72.71	-1,109.74	1,110.87	0.14	0.13	-1.63	
9,582.00	2.57	180.55	9,420.41	69.04	-1,109.70	1,110.41	0.57	0.56	3.09	
9,672.00	2.83	183.23	9,510.31	64.80	-1,109.84	1,110.07	0.32	0.29	2.98	
9,760.00	3.02	184.66	9,598.20	60.32	-1,110.15	1,109.88	0.23	0.22	1.63	
LAST SDI MWD PRODUCTION SURVEY										
9,820.00	3.02	184.66	9,658.11	57.17	-1,110.41	1,109.78	0.00	0.00	0.00	
SDI PROJECTION TO TD										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N-S (ft)	+E-W (ft)		Comment
213.00	213.00	-0.56	-0.64	FIRST WEATHERFORD MWD SURFACE SURVEY	
2,600.00	2,508.74	67.08	-591.26	LAST WEATHERFORD MWD SURFACE SURVEY	
2,701.00	2,605.28	68.73	-620.90	FIRST SDI MWD PRODUCTION SURVEY	
9,760.00	9,598.20	60.32	-1,110.15	LAST SDI MWD PRODUCTION SURVEY	
9,820.00	9,658.11	57.17	-1,110.41	SDI PROJECTION TO TD	

Checked By: _____ Approved By: _____ Date: _____

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JUN 23 2011

DIV OF OIL, GAS & MINING



Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 921-25A Pad
NBU 921-25B1CS

OH

Design: OH

Survey Report - Geographic

08 April, 2011

RECEIVED

JUN 23 2011

DIV. OF OIL, GAS & MINING



Company:	Kerr McGee Oil and Gas Onshore LP		Local Co-ordinate Reference:	Well NBU 921-25B1CS					
Project:	Uintah County, UT UTM12		TVD Reference:	GL 4899' & RKB 14' @ 4913.00ft (EN SIGN 139)					
Site:	NBU 921-25A Pad		MD Reference:	GL 4899' & RKB 14' @ 4913.00ft (EN SIGN 139)					
Well:	NBU 921-25B1CS		North Reference:	True					
Wellbore:	OH		Survey Calculation Method:	Minimum Curvature					
Design:	OH		Database:	EDM5000-RobertS-Local					
Project	Uintah County, UT UTM12		System Datum:	Mean Sea Level					
Map System:	Universal Transverse Mercator (US Survey Feet)		System Datum:	Mean Sea Level					
Geo Datum:	NAD 1927 - Western US								
Map Zone:	Zone 12N (114 W to 108 W)								
Site	NBU 921-25A Pad, SEC 25 T9S R21E								
Site Position:	From: Lat/Long	Northing:	14,534,327.34 usft	Latitude:	40° 0' 46.562 N				
Position Uncertainty:		Easting:	2,062,672.61 usft	Longitude:	109° 29' 31.211 W				
	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.97 °				
Well	NBU 921-25B1CS, 489' FNL 565' FEL								
Well Position	+N-S	0.00 ft	Northing:	14,534,326.80 usft	Latitude:				
	+E/W	0.00 ft	Easting:	2,062,662.53 usft	Longitude:				
Position Uncertainty	0.00 ft		Wellhead Elevation:	ft	Ground Level:				
					4,899.00 ft				
Wellbore	OH								
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)				
	IGRF2010	03/12/2011	11.11	65.89	52,364				
Design	OH								
Audit Notes:									
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00				
Vertical Section:	Depth From (TVD) (ft)	+N-S (ft)	+E/W (ft)	Direction (°)					
	0.00	0.00	0.00	276.47					
Survey Program	Date 04/08/2011								
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description					
10.00	2,600.00	Survey #1 WFT MWD SURFACE (OH)	MWD	MWD - Standard					
2,701.00	9,820.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1					
Survey									
Measured	Vertical	Map	Map						
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N-S (ft)	+E/W (ft)	Northing (usft)	Eastng (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,534,326.80	2,062,662.53	40° 0' 46.559 N	109° 29' 31.340 W
10.00	0.00	0.00	10.00	0.00	0.00	14,534,326.80	2,062,662.53	40° 0' 46.559 N	109° 29' 31.340 W
213.00	0.48	228.84	213.00	-0.56	-0.64	14,534,326.23	2,062,661.90	40° 0' 46.553 N	109° 29' 31.349 W
FIRST WEATHERFORD MWD SURFACE SURVEY									
306.00	1.75	289.40	305.98	-0.34	-2.27	14,534,326.42	2,062,660.27	40° 0' 46.555 N	109° 29' 31.370 W
400.00	2.81	275.53	399.91	0.35	-5.92	14,534,327.06	2,062,656.61	40° 0' 46.562 N	109° 29' 31.416 W
495.00	3.94	289.53	494.74	1.67	-11.31	14,534,328.28	2,062,651.19	40° 0' 46.575 N	109° 29' 31.486 W
590.00	5.75	288.28	589.40	4.25	-18.91	14,534,330.74	2,062,643.56	40° 0' 46.601 N	109° 29' 31.583 W
686.00	7.81	290.78	684.72	8.08	-29.58	14,534,334.38	2,062,632.83	40° 0' 46.639 N	109° 29' 31.721 W
781.00	9.38	287.03	778.65	12.63	-43.01	14,534,338.71	2,062,619.31	40° 0' 46.684 N	109° 29' 31.893 W
876.00	10.88	279.78	872.17	16.43	-59.25	14,534,342.22	2,062,603.01	40° 0' 46.721 N	109° 29' 32.102 W

Company: Kerr McGee Oil and Gas Onshore LP
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MD Reference: GL 4899' & RKB 14' @ 4913.00ft (EN SIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey										
Measured	Depth	Inclination	Azimuth	Vertical Depth	+N/S	+E/W	Map Northing	Map Easting	Latitude	Longitude
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
	971.00	12.25	273.28	965.24	18.53	-78.15	14,534,344.00	2,062,584.08	40° 0' 46.742 N	109° 29' 32.345 W
	1,065.00	13.88	276.03	1,056.81	20.28	-99.32	14,534,345.40	2,062,562.88	40° 0' 46.759 N	109° 29' 32.617 W
	1,160.00	15.19	273.03	1,148.77	22.14	-123.08	14,534,346.85	2,062,539.09	40° 0' 46.778 N	109° 29' 32.923 W
	1,255.00	16.19	276.78	1,240.23	24.36	-148.67	14,534,348.64	2,062,513.48	40° 0' 46.800 N	109° 29' 33.251 W
	1,351.00	17.69	277.15	1,332.06	27.75	-176.43	14,534,351.57	2,062,485.66	40° 0' 46.833 N	109° 29' 33.608 W
	1,446.00	18.13	276.53	1,422.46	31.23	-205.44	14,534,354.55	2,062,456.60	40° 0' 46.867 N	109° 29' 33.981 W
	1,540.00	18.94	276.28	1,511.58	34.56	-235.13	14,534,357.38	2,062,426.85	40° 0' 46.900 N	109° 29' 34.363 W
	1,634.00	19.69	276.40	1,600.29	38.00	-266.03	14,534,360.29	2,062,395.90	40° 0' 46.934 N	109° 29' 34.760 W
	1,730.00	20.81	275.90	1,690.35	41.55	-299.07	14,534,363.29	2,062,362.81	40° 0' 46.969 N	109° 29' 35.185 W
	1,825.00	21.69	275.65	1,778.89	45.01	-333.32	14,534,366.17	2,062,328.50	40° 0' 47.004 N	109° 29' 35.625 W
	1,919.00	22.75	275.53	1,865.91	48.48	-368.70	14,534,369.03	2,062,293.07	40° 0' 47.038 N	109° 29' 36.080 W
	2,015.00	22.38	276.53	1,954.56	52.34	-405.33	14,534,372.28	2,062,256.37	40° 0' 47.076 N	109° 29' 36.551 W
	2,110.00	21.50	275.15	2,042.68	55.96	-440.64	14,534,375.30	2,062,221.01	40° 0' 47.112 N	109° 29' 37.005 W
	2,205.00	18.13	274.53	2,132.05	58.69	-472.72	14,534,377.49	2,062,188.89	40° 0' 47.139 N	109° 29' 37.417 W
	2,300.00	17.38	272.65	2,222.52	60.52	-501.63	14,534,378.82	2,062,159.95	40° 0' 47.157 N	109° 29' 37.789 W
	2,394.00	17.38	275.15	2,312.23	62.43	-529.64	14,534,380.26	2,062,131.91	40° 0' 47.176 N	109° 29' 38.149 W
	2,489.00	17.50	273.65	2,402.86	64.61	-558.03	14,534,381.96	2,062,103.50	40° 0' 47.197 N	109° 29' 38.513 W
	2,600.00	17.45	274.86	2,508.74	67.08	-591.26	14,534,383.87	2,062,070.22	40° 0' 47.222 N	109° 29' 38.941 W
LAST WEATHERFORD MWD SURFACE SURVEY										
	2,701.00	16.75	271.42	2,605.28	68.73	-620.90	14,534,385.01	2,062,040.56	40° 0' 47.238 N	109° 29' 39.322 W
FIRST SDI MWD PRODUCTION SURVEY										
	2,791.00	17.25	272.11	2,691.35	69.54	-647.20	14,534,385.38	2,062,014.25	40° 0' 47.246 N	109° 29' 39.660 W
	2,882.00	18.49	274.00	2,777.95	71.04	-675.08	14,534,386.41	2,061,986.35	40° 0' 47.261 N	109° 29' 40.018 W
	2,973.00	18.68	273.50	2,864.21	72.94	-704.02	14,534,387.82	2,061,957.38	40° 0' 47.280 N	109° 29' 40.390 W
	3,063.00	18.21	276.01	2,949.59	75.29	-732.40	14,534,389.69	2,061,928.97	40° 0' 47.303 N	109° 29' 40.755 W
	3,154.00	17.93	274.80	3,036.10	77.95	-760.50	14,534,391.87	2,061,900.83	40° 0' 47.329 N	109° 29' 41.116 W
	3,244.00	18.38	277.54	3,121.62	80.97	-788.37	14,534,394.42	2,061,872.91	40° 0' 47.359 N	109° 29' 41.474 W
	3,335.00	17.56	274.02	3,208.18	83.82	-816.29	14,534,396.79	2,061,844.95	40° 0' 47.387 N	109° 29' 41.833 W
	3,425.00	17.01	275.84	3,294.12	86.11	-842.93	14,534,398.63	2,061,818.27	40° 0' 47.410 N	109° 29' 42.176 W
	3,516.00	16.83	276.19	3,381.18	88.88	-869.26	14,534,400.96	2,061,791.89	40° 0' 47.437 N	109° 29' 42.514 W
	3,606.00	15.25	272.29	3,467.67	90.76	-894.05	14,534,402.42	2,061,767.08	40° 0' 47.456 N	109° 29' 42.833 W
	3,697.00	14.37	274.13	3,555.65	92.05	-917.27	14,534,403.32	2,061,743.84	40° 0' 47.469 N	109° 29' 43.131 W
	3,787.00	13.60	277.08	3,642.98	94.16	-938.91	14,534,405.06	2,061,722.17	40° 0' 47.489 N	109° 29' 43.409 W
	3,878.00	12.72	277.15	3,731.59	96.73	-959.47	14,534,407.28	2,061,701.57	40° 0' 47.515 N	109° 29' 43.674 W
	3,968.00	11.79	283.27	3,819.55	100.07	-978.25	14,534,410.30	2,061,682.73	40° 0' 47.548 N	109° 29' 43.915 W
	4,059.00	11.63	283.86	3,908.65	104.40	-996.20	14,534,414.33	2,061,664.71	40° 0' 47.591 N	109° 29' 44.146 W
	4,149.00	9.72	287.84	3,997.09	108.90	-1,012.24	14,534,418.56	2,061,648.59	40° 0' 47.635 N	109° 29' 44.352 W
	4,240.00	10.36	288.35	4,086.70	113.83	-1,027.32	14,534,423.23	2,061,633.43	40° 0' 47.684 N	109° 29' 44.546 W
	4,331.00	10.10	286.58	4,176.25	118.69	-1,042.74	14,534,427.82	2,061,617.94	40° 0' 47.732 N	109° 29' 44.744 W
	4,421.00	9.49	290.63	4,264.94	123.55	-1,057.24	14,534,432.44	2,061,603.35	40° 0' 47.780 N	109° 29' 44.931 W
	4,511.00	8.68	286.77	4,353.81	128.13	-1,070.69	14,534,436.79	2,061,589.83	40° 0' 47.825 N	109° 29' 45.103 W
	4,602.00	8.82	287.95	4,443.75	132.26	-1,083.90	14,534,440.70	2,061,576.55	40° 0' 47.866 N	109° 29' 45.273 W
	4,692.00	7.77	284.57	4,532.81	135.91	-1,096.35	14,534,444.14	2,061,564.04	40° 0' 47.902 N	109° 29' 45.433 W
	4,783.00	5.96	281.15	4,623.15	138.38	-1,106.94	14,534,446.42	2,061,553.41	40° 0' 47.926 N	109° 29' 45.569 W
	4,873.00	4.41	275.48	4,712.78	139.61	-1,114.97	14,534,447.52	2,061,545.36	40° 0' 47.939 N	109° 29' 45.673 W
	4,964.00	2.42	292.01	4,803.62	140.66	-1,120.24	14,534,448.49	2,061,540.08	40° 0' 47.949 N	109° 29' 45.740 W
	5,054.00	0.88	283.54	4,893.58	141.54	-1,122.67	14,534,449.32	2,061,537.63	40° 0' 47.958 N	109° 29' 45.772 W
	5,145.00	0.72	271.42	4,984.57	141.72	-1,123.92	14,534,449.48	2,061,536.38	40° 0' 47.959 N	109° 29' 45.788 W
	5,235.00	0.66	264.40	5,074.56	141.68	-1,125.00	14,534,449.42	2,061,535.30	40° 0' 47.959 N	109° 29' 45.802 W
	5,326.00	0.59	243.45	5,165.56	141.42	-1,125.94	14,534,449.15	2,061,534.36	40° 0' 47.956 N	109° 29' 45.814 W
	5,417.00	0.50	223.08	5,256.55	140.92	-1,126.64	14,534,448.63	2,061,533.68	40° 0' 47.951 N	109° 29' 45.823 W
	5,507.00	0.83	231.84	5,346.55	140.23	-1,127.42	14,534,447.93	2,061,532.91	40° 0' 47.945 N	109° 29' 45.833 W
	5,598.00	0.68	212.87	5,437.54	139.37	-1,128.23	14,534,447.06	2,061,532.11	40° 0' 47.936 N	109° 29' 45.843 W
	5,688.00	0.62	148.75	5,527.54	138.50	-1,128.26	14,534,446.19	2,061,532.09	40° 0' 47.928 N	109° 29' 45.843 W
	5,779.00	0.80	153.37	5,618.53	137.52	-1,127.72	14,534,445.21	2,061,532.65	40° 0' 47.918 N	109° 29' 45.837 W

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-25A Pad
Well: NBU 921-25B1CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well NBU 921-25B1CS
 GL 4899' & RKB 14' @ 4913.00ft (EN SIGN 139)
 GL 4899' & RKB 14' @ 4913.00ft (EN SIGN 139)
 True
 Minimum Curvature
 EDM5000-RobertS-Local

Survey										
Measured	Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Map Northing (usft)	Map Easting (usft)	Map Latitude	Map Longitude
	5,869.00	0.95	148.34	5,708.52	136.32	-1,127.05	14,534,444.03	2,061,533.34	40° 0' 47.906 N	109° 29' 45.828 W
	5,960.00	0.84	167.80	5,799.51	135.02	-1,126.51	14,534,442.74	2,061,533.90	40° 0' 47.893 N	109° 29' 45.821 W
	6,050.00	1.10	145.93	5,889.49	133.66	-1,125.89	14,534,441.39	2,061,534.55	40° 0' 47.880 N	109° 29' 45.813 W
	6,141.00	1.24	145.58	5,980.48	132.13	-1,124.84	14,534,439.88	2,061,535.62	40° 0' 47.865 N	109° 29' 45.800 W
	6,231.00	1.00	160.61	6,070.46	130.58	-1,124.03	14,534,438.35	2,061,536.45	40° 0' 47.849 N	109° 29' 45.789 W
	6,322.00	1.17	168.59	6,161.44	128.92	-1,123.59	14,534,436.69	2,061,536.93	40° 0' 47.833 N	109° 29' 45.783 W
	6,413.00	1.53	157.12	6,252.42	126.89	-1,122.93	14,534,434.67	2,061,537.62	40° 0' 47.813 N	109° 29' 45.775 W
	6,503.00	1.69	175.10	6,342.38	124.47	-1,122.35	14,534,432.26	2,061,538.24	40° 0' 47.789 N	109° 29' 45.767 W
	6,593.00	1.93	166.07	6,432.34	121.67	-1,121.87	14,534,429.47	2,061,538.77	40° 0' 47.761 N	109° 29' 45.761 W
	6,684.00	1.81	164.80	6,523.29	118.80	-1,121.13	14,534,426.61	2,061,539.56	40° 0' 47.733 N	109° 29' 45.752 W
	6,774.00	2.12	168.68	6,613.24	115.79	-1,120.43	14,534,423.62	2,061,540.31	40° 0' 47.703 N	109° 29' 45.743 W
	6,865.00	1.41	174.18	6,704.19	113.03	-1,119.98	14,534,420.86	2,061,540.80	40° 0' 47.676 N	109° 29' 45.737 W
	6,955.00	1.08	167.48	6,794.17	111.10	-1,119.69	14,534,418.94	2,061,541.13	40° 0' 47.657 N	109° 29' 45.733 W
	7,046.00	1.14	181.78	6,885.15	109.36	-1,119.53	14,534,417.20	2,061,541.32	40° 0' 47.639 N	109° 29' 45.731 W
	7,137.00	1.19	174.45	6,976.13	107.51	-1,119.47	14,534,415.35	2,061,541.41	40° 0' 47.621 N	109° 29' 45.730 W
	7,227.00	1.51	180.40	7,066.11	105.40	-1,119.38	14,534,413.24	2,061,541.53	40° 0' 47.600 N	109° 29' 45.729 W
	7,318.00	1.80	180.91	7,157.07	102.77	-1,119.41	14,534,410.61	2,061,541.54	40° 0' 47.574 N	109° 29' 45.730 W
	7,408.00	1.47	179.57	7,247.03	100.20	-1,119.43	14,534,408.04	2,061,541.57	40° 0' 47.549 N	109° 29' 45.730 W
	7,499.00	2.01	184.02	7,337.99	97.44	-1,119.53	14,534,405.28	2,061,541.52	40° 0' 47.522 N	109° 29' 45.731 W
	7,589.00	1.72	193.18	7,427.95	94.55	-1,119.95	14,534,402.39	2,061,541.15	40° 0' 47.493 N	109° 29' 45.737 W
	7,680.00	0.42	160.20	7,518.93	92.91	-1,120.15	14,534,400.74	2,061,540.98	40° 0' 47.477 N	109° 29' 45.739 W
	7,770.00	0.72	102.75	7,608.92	92.47	-1,119.48	14,534,400.32	2,061,541.65	40° 0' 47.473 N	109° 29' 45.731 W
	7,861.00	0.77	132.36	7,699.92	91.94	-1,118.48	14,534,399.80	2,061,542.67	40° 0' 47.467 N	109° 29' 45.718 W
	7,951.00	0.75	143.44	7,789.91	91.05	-1,117.68	14,534,398.93	2,061,543.48	40° 0' 47.459 N	109° 29' 45.707 W
	8,042.00	1.24	106.37	7,880.90	90.30	-1,116.38	14,534,398.20	2,061,544.79	40° 0' 47.451 N	109° 29' 45.691 W
	8,132.00	1.24	116.05	7,970.87	89.60	-1,114.57	14,534,397.52	2,061,546.61	40° 0' 47.444 N	109° 29' 45.667 W
	8,223.00	0.71	83.10	8,061.86	89.23	-1,113.12	14,534,397.18	2,061,548.06	40° 0' 47.441 N	109° 29' 45.649 W
	8,313.00	0.82	64.20	8,151.85	89.58	-1,111.99	14,534,397.55	2,061,549.19	40° 0' 47.444 N	109° 29' 45.634 W
	8,404.00	0.90	71.18	8,242.84	90.09	-1,110.73	14,534,398.09	2,061,550.44	40° 0' 47.449 N	109° 29' 45.618 W
	8,495.00	0.90	63.27	8,333.83	90.65	-1,109.41	14,534,398.66	2,061,551.75	40° 0' 47.455 N	109° 29' 45.601 W
	8,585.00	0.89	95.31	8,423.82	90.90	-1,108.09	14,534,398.94	2,061,553.07	40° 0' 47.457 N	109° 29' 45.584 W
	8,676.00	0.85	77.53	8,514.81	90.98	-1,106.72	14,534,399.04	2,061,554.43	40° 0' 47.458 N	109° 29' 45.567 W
	8,767.00	0.75	117.15	8,605.80	90.85	-1,105.53	14,534,398.93	2,061,555.62	40° 0' 47.457 N	109° 29' 45.551 W
	8,857.00	0.73	113.61	8,695.80	90.35	-1,104.48	14,534,398.45	2,061,556.68	40° 0' 47.452 N	109° 29' 45.538 W
	8,948.00	1.02	203.73	8,786.79	89.38	-1,104.28	14,534,397.48	2,061,556.90	40° 0' 47.442 N	109° 29' 45.535 W
	9,038.00	1.85	214.96	8,876.76	87.46	-1,105.43	14,534,395.54	2,061,555.78	40° 0' 47.423 N	109° 29' 45.550 W
	9,129.00	2.18	214.56	8,967.70	84.83	-1,107.26	14,534,392.88	2,061,554.00	40° 0' 47.397 N	109° 29' 45.573 W
	9,219.00	1.79	195.06	9,057.65	82.06	-1,108.59	14,534,390.09	2,061,552.71	40° 0' 47.370 N	109° 29' 45.591 W
	9,310.00	2.15	195.12	9,148.60	79.04	-1,109.41	14,534,387.06	2,061,551.95	40° 0' 47.340 N	109° 29' 45.601 W
	9,400.00	1.94	179.22	9,238.54	75.89	-1,109.83	14,534,383.90	2,061,551.58	40° 0' 47.309 N	109° 29' 45.606 W
	9,491.00	2.06	177.74	9,329.48	72.71	-1,109.74	14,534,380.72	2,061,551.72	40° 0' 47.277 N	109° 29' 45.605 W
	9,582.00	2.57	180.55	9,420.41	69.04	-1,109.70	14,534,377.05	2,061,551.83	40° 0' 47.241 N	109° 29' 45.605 W
	9,672.00	2.83	183.23	9,510.31	64.80	-1,109.84	14,534,372.81	2,061,551.76	40° 0' 47.199 N	109° 29' 45.607 W
	9,760.00	3.02	184.66	9,598.20	60.32	-1,110.15	14,534,368.33	2,061,551.52	40° 0' 47.155 N	109° 29' 45.611 W
LAST SDI MWD PRODUCTION SURVEY										
9,820.00	3.02	184.66	9,658.11	57.17	-1,110.41	14,534,365.17	2,061,551.32	40° 0' 47.124 N	109° 29' 45.614 W	
SDI PROJECTION TO TD										

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DIV OF OIL, GAS & MINING

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-25A Pad
Well: NBU 921-25B1CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-25B1CS
TVD Reference: GL 4899' & RKB 14' @ 4913.00ft (EN SIGN 139)
MD Reference: GL 4899' & RKB 14' @ 4913.00ft (EN SIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/S (ft)	+E/W (ft)	
213.00	213.00	-0.56	-0.64	FIRST WEATHERFORD MWD SURFACE SURVEY
2,600.00	2,508.74	67.08	-591.26	LAST WEATHERFORD MWD SURFACE SURVEY

Checked By: _____

Approved By: _____

Date: _____

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JUN 23 2011
DIV OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:
UO 1189 ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME
UTU63047A

8. WELL NAME and NUMBER:
NBU 921-25B1CS

9. API NUMBER:
4304751238

10 FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE,
MERIDIAN:
NENE 25 9S 21E S

12. COUNTY
UINTAH

13. STATE
UTAH

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL:	OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>	DRY <input type="checkbox"/>	OTHER _____	7. UNIT or CA AGREEMENT NAME UTU63047A						
b. TYPE OF WORK:	NEW WELL <input checked="" type="checkbox"/>	HORIZ. LATS. <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	RE-ENTRY <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	OTHER _____	8. WELL NAME and NUMBER: NBU 921-25B1CS				
2. NAME OF OPERATOR:	KERR MCGEE OIL & GAS ONSHORE, L.P.					9. API NUMBER: 4304751238					
3. ADDRESS OF OPERATOR:	P.O.BOX 173779	CITY DENVER	STATE CO	ZIP 80217	PHONE NUMBER: (720) 929-6100	10 FIELD AND POOL, OR WILDCAT NATURAL BUTTES					
4. LOCATION OF WELL (FOOTAGES)	BHL reviewed by Hsm AT SURFACE: NENE 489 FNL 575 FEL S25, T9S, R21E AT TOP PRODUCING INTERVAL REPORTED BELOW: NWNE 394 FNL 1695 FEL S25, T9S, R21E AT TOTAL DEPTH: NWNE 432 FNL 1685 FEL S25, T9S, R21E					11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 25 9S 21E S					
14. DATE SPUNDED:	15. DATE T.D. REACHED:	16. DATE COMPLETED:	ABANDONED <input type="checkbox"/>	READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): 4899 GL						
12/15/2010	3/24/2011	5/13/2011									
18. TOTAL DEPTH: MD 9,820 TVD 9,658	19. PLUG BACK T.D.: MD 9,753 TVD 9,591	20. IF MULTIPLE COMPLETIONS, HOW MANY? *	21. DEPTH BRIDGE MD PLUG SET: TVD								
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) CBL-CHI TRIPLE COMBO			23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/>	(Submit analysis) (Submit report) (Submit copy)							
24. CASING AND LINER RECORD (Report all strings set in well)											
HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED		
20"	14" STL	36.7#		40		28					
11"	8 5/8" IJ-55	28#		2,637		775		0			
7 7/8"	4 1/2" I-80	11.6#		9,580		1,603		920			
7 7/8"	4 1/2" P110	11.6#	9,580	9,799							
26. TUBING RECORD											
SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)			
2 3/8"	9,109										
26. PRODUCING INTERVALS					27. PERFORATION RECORD						
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS			
(A) MESAVERDE	7,603	9,628			7,603 9,628	0.36	190	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>			
(B) WSMVD								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.											
RECEIVED											
DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL										
7603 - 9628	PUMP 11,573 BBLS SLICK H2O & 252,161 LBS SAND								JUN 23 2011		
									DIV. OF OIL, GAS & MINING		
29. ENCLOSED ATTACHMENTS:									30. WELL STATUS:		
<input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION				<input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> CORE ANALYSIS				<input type="checkbox"/> DST REPORT <input type="checkbox"/> OTHER: _____		<input checked="" type="checkbox"/> DIRECTIONAL SURVEY	PROD

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 5/13/2011	TEST DATE: 5/21/2011	HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 1,636	WATER - BBL: 492	PROD. METHOD: FLOWING		
CHOKE SIZE: 20/64	TBG. PRESS. 575	CSG. PRESS. 875	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 1,636	WATER - BBL: 492	INTERVAL STATUS: PROD

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:		
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:		
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:		
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,524				
BIRD'S NEST	1,833				
MAHOGANY	2,225				
WASATCH	4,900	7,600			
MESAVERDE	7,600	9,820	TD		

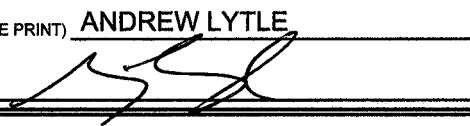
35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the chronological well history, perforation report and final survey. Completion chrono details individual frac stages. The rig release sundry submitted 3/28/11 stated the I-80 csg went to 9566' & the P110 csg went to 9785'; these depths did not include the kelly bushing which is why they each are 14' less than the depths reported on this completion report.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) ANDREW LYTHE

TITLE REGULATORY ANALYST

SIGNATURE 

DATE 6-16-2011

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

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JUN 23 2011

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25B1CS [BLUE]		Spud Conductor: 12/15/2010			Spud Date: 2/4/2011			
Project: UTAH-UINTAH		Site: NBU 921-25A PAD			Rig Name No: ENSIGN 139/139, CAPSTAR 310/310			
Event: DRILLING		Start Date: 12/7/2010			End Date: 3/26/2011			
Active Datum: RKB @4,913.00ft (above Mean Sea Level)			UWI: NE/NE/0/9/S/21/E/25/0/0/26/PM/N/489/E/0/575/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
2/3/2011	20:00 - 0:00	4.00	MIRU	21	C	P		WAIT ON DAY LIGHT TO MOVE RIG
2/4/2011	0:00 - 7:00	7.00	MIRU	21	C	P		WAIT ON DAYLIGHT TO MOVE
	7:00 - 11:30	4.50	MIRU	01	C	P		SKID RIG & RIG UP
	11:30 - 13:00	1.50	PRPSPD	14	A	P		WELD ON CONDUCTOR & RIG UP FLOW LINE
	13:00 - 15:30	2.50	PRPSPD	06	A	P		PICK UP MUD MOTOR & 11" BIT
	15:30 - 17:00	1.50	DRLSUR	02	B	P		SPUD 11" SURFACE HOLE F/ 40'- 223' // ROP= 122 FPH // WOB= 16-18K // RPM= 55/96 // SPP= 850/500 // GPM= 600
	17:00 - 19:30	2.50	DRLSUR	06	A	P		TOOH & PU DIR TOOLS
	19:30 - 0:00	4.50	DRLSUR	02	D	P		DIR DRLG 11" SURFACE HOLE F/ 223'- 736' // ROP= 114 FPH // WOB= 18-22K // RPM= 55/96 // SPP= 1052/890 // GPM= 600 // NO LOSSES // LAST SURVEY @ 676'= 7.81 DEG- 290.78 AZ
2/5/2011	0:00 - 3:00	3.00	DRLSUR	02	D	P		DIR DRLG 11" SURFACE HOLE F/ 736'-1179' // ROP= 140 FPH // WOB= 18-22K // RPM= 55/96 // SPP= 1052/890 // GPM= 600 // NO LOSSES
	3:00 - 4:00	1.00	DRLSUR	08	B	Z		REPLACE SWAB & LINER ON #2 PUMP
	4:00 - 15:00	11.00	DRLSUR	02	D	P		DIR DRLG 11" SURFACE HOLE F/ 1179'-2414' // ROP= 112 FPH // WOB= 18-22K // RPM= 55/96 // SPP= 1380/ 1120 // GPM= 600 // NO LOSSES
	15:00 - 15:30	0.50	DRLSUR	07	A	P		SERVICE RIG & EQUIPMENT
	15:30 - 17:30	2.00	DRLSUR	02	D	P		DIR DRLG 11" SURFACE HOLE F/ 2414'- 2650' // ROP= 118 FPH // WOB= 18-22K // RPM= 55/96 // SPP= 1380/ 1120 // GPM= 600 // NO LOSSES // LAST SURVEY @ 2590'= 17.45 DEG- 274.86 AZ // 78.3% ROTATE- 21.7% SLIDE
	17:30 - 18:00	0.50	DRLSUR	05	A	P		CIRC & COND HOLE FOR 8.625" CSG
	18:00 - 23:30	5.50	DRLSUR	06	A	P		LD DRILLSTRING & DIR TOOLS
	23:30 - 0:00	0.50	CSG	12	C	P		PJSM // START RUNNING 8.625" CSG
2/6/2011	-		CSG					SPUD DATE/TIME: 2/4/2011 15:30
								SURFACE HOLE: Surface From depth: 40 Surface To depth: 2,650 Total SURFACE hours: 22.00 Surface Casing size: 8 5/8 # of casing joints ran: 59 Casing set MD: 2,632.0 # sx of cement: 200/225/350 Cement blend (ppg): 11.0/15.8/15.8 Cement yield (ft3/sk): 3.83/1.15/1.15 # of bbls to surface: 0 Describe cement issues: LOST RETURNS 130 BBL'S INTO DISP. Describe hole issues: NONE
	0:00 - 4:00	4.00	CSG	12	C	P		PJSM // RUN 59 JT'S 8.625", 28#, J-55, LT&C CSG // SHOE SET @ 2630' // BAFFLE @ 2585' CIRC CSG @ 2630'
	4:00 - 4:30	0.50	CSG	05	A	P		

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US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25B1CS [BLUE]				Spud Conductor: 12/15/2010				Spud Date: 2/4/2011							
Project: UTAH-UINTAH				Site: NBU 921-25A PAD				Rig Name No: ENSIGN 139/139, CAPSTAR 310/310							
Event: DRILLING				Start Date: 12/7/2010				End Date: 3/26/2011							
Active Datum: RKB @4,913.00ft (above Mean Sea Level)				UWI: NE/NE/0/9/S/21/E/25/0/0/26/PM/N/489/E/0/575/0/0											
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation							
4:30 - 6:30 2.00 CSG 12 E P PJSM // PUMP 30 BBL SPACER // LEAD= 200 SX CLASS G @ 3.83 YIELD & 11.0 WT // TAIL= 225 SX CLASS G @ 1.15 YIELD & 15.8 WT // DROP PLUG & DISPLACE W/ 154 BBLS WATER // LOST RETURNS 130 BBL'S INTO DISPLACEMENT // PLUG DN @ 06:12 2/6/2011 // BUMP PLUG @ 810 PSI // FINAL LIFT = 520 PSI // CHECK FLOATS -HELD W/ .5 BBL BACK //															
3/19/2011	6:30 - 7:00 0.50 CSG 14 A P CUT OFF CONDUCTOR & HANG 8.625" CSG														
	7:00 - 7:30 0.50 CSG 12 E P PUMP TOP OUT @ 350 SX CMT @ 1.15 YIELD & 15.8 WT // CMT TO SURFACE														
	7:30 - 8:00 0.50 CSG 01 E P RIG DN // RELEASE RIG @ 08:00 2/6/2011 TO THE BONANZA 1023-7N2AS														
	0:00 - 2:00 2.00 MIRU 01 C P SKID ON,RURT,														
	2:00 - 5:00 3.00 PRPSPD 09 A P CUT & SLIP DRLG LINE														
	5:00 - 7:00 2.00 PRPSPD 07 A P CHANGE OIL IN TOPDRIVE,SERVICE TD,PRE SPUD INSPECTION														
	7:00 - 11:00 4.00 PRPSPD 15 A P TEST BOP,ANNULAR 2.5K ,RAMS,CHOKE,KILLLINE & FLOOR VALVES TO 5K,CSG 1.5K F/30 MIN,250 LOWS														
	11:00 - 16:00 5.00 PRPSPD 06 A P P/U BHA#1,SCRIBE DIR TOOLS,THI,LEVEL DERRICK,THI,														
3/20/2011	16:00 - 18:00 2.00 DRLPRO 02 F P DRILL CEMENT & FE TO 2655',PLUS 20' NEW 7.875 HOLET TO 2675- F/FIT TEST,700 PSI/15 MIN ON TEST W/B&C QUIK TEST,5' FLARE BEFORE DRLG OUT FE,THI 210'														
	18:00 - 0:00 6.00 DRLPRO 02 D P DIR DRILL F/2675 TO 3480,=805,AVG 134,WOB 18,GPM560,116 STKS,PSI 1000/1500,TORQ 3/6 K,SLIDE 110' 14%,CIRC RES PIT,5' FLARE WHILE DRLG														
	0:00 - 7:00 7.00 DRLPRO 02 D P DIR DRILL F/3480 TO 4204=724,AVG 103 ,WOB 18,GPM560,116 STKS,PSI 1100/1600,TORQ 3/8 K,SLIDE 14%,CIRC RES PIT,3' FLARE WHILE DRLG														
	7:00 - 7:30 0.50 DRLPRO 07 A P RIG SERVICE														
	7:30 - 20:30 13.00 DRLPRO 02 D P DIR DRILL F/4204 TO 5733=1529,AVG 117 ,WOB 18,GPM550,116 STKS,PSI 1100/1600,TORQ 5/9 K,SLIDE 13%,CIRC RES PIT,5' FLARE WHILE DRLG														
	20:30 - 22:00 1.50 DRLPRO 05 A S LOST FULL RETURNS,PUMP 25% SWEEPS,LT MUD UP,8.7 18% LCM,REGAIN CIRC,TOTAL LOST 300 BBLS														
	22:00 - 0:00 2.00 DRLPRO 02 D P DIR DRILL F/5733 TO 5900=167 ,AVG 84 ,WOB 18,GPM 480,96 STKS,PSI 1100/1600,TORQ 5/9 K,SLIDE 10%,CIRC RES PIT,3' FLARE WHILE DRLG														
	0:00 - 11:00 11.00 DRLPRO 02 D P DIR DRILL F/5900 TO 6739=839,AVG 76 ,WOB 20,GPM 470,96 STKS,PSI 1300/1700,TORQ 5/9 K,SLIDE 2%,MW 9.4/39 8%LCM														
3/21/2011	11:00 - 11:30 0.50 DRLPRO 07 A P RIG SERVICE														
	11:30 - 0:00 12.50 DRLPRO 02 D P DIR DRILL F/6739 TO 7280=541,AVG 44,WOB 20,GPM 470,96 STKS,PSI 1600/1900,TORQ 6/10 K,SLIDE 0%,MW 9.9/37 8%LCM														
	0:00 - 13:30 13.50 DRLPRO 02 D P DIR DRILL F/7280 TO 7824=544,AVG 40 ,WOB 20,GPM 470,96 STKS,PSI 1700/2000,TORQ 6/10 K,SLIDE 2%,MW 10.4/39 10%LCM														
	13:30 - 14:00 0.50 DRLPRO 07 A P RIG SERVICE														
3/22/2011	14:00 - 0:00 10.00 DRLPRO 02 D P DIR DRILL F/7824 TO 8225=401 ,AVG 40 ,WOB 20,GPM 470,96 STKS,PSI 1700/2100,TORQ 6/10 K,SLIDE 8%,MW 10.8/ 10%LCM														
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US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25B1CS [BLUE]			Spud Conductor: 12/15/2010			Spud Date: 2/4/2011		
Project: UTAH-UINTAH			Site: NBU 921-25A PAD			Rig Name No: ENSIGN 139/139, CAPSTAR 310/310		
Event: DRILLING			Start Date: 12/7/2010			End Date: 3/26/2011		
Active Datum: RKB @4,913.00ft (above Mean Sea Level)				UWI: NE/NE/0/9/S/21/E/25/0/0/26/PM/N/489/E/0/575/0/0				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/23/2011	0:00 - 8:00	8.00	DRLPRO	02	D	P		DIR DRILL F/8225 TO 8485=260 ,AVG 32,WOB 20,GPM 470,96 STKS,PSI 1700/2100,TORQ 8/13 K,SLIDE 0%,MW 11.3/40 12%LCM
	8:00 - 15:30	7.50	DRLPRO	06	A	P		FLOW CHECK ,SURVEY,PUMP OUT 5 STNDS,POOH F/BIT & MTR CHANGE,TIGHT F/5006 TO 4740',CHECK RIG LEVEL OK
	15:30 - 0:00	8.50	DRLPRO	06	A	P		P/U BHA #2,SCRIBE TOOLS TIH,FILL@1233' 3900',TIGHT SPOT IN @ 6200
3/24/2011	0:00 - 11:30	11.50	DRLPRO	02	D	P		DIR DRILL F/8485 TO 9279=794 ,AVG69 ,WOB 20,GPM 440,90 STKS,PSI 2100/2450,TORQ 8/13 K,SLIDE 4%,MW 12.1/40 15%LCM
	11:30 - 12:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	12:00 - 22:00	10.00	DRLPRO	02	D	P		DIR DRILL F/9279 TO 9820=541,AVG 50 ,WOB 20,GPM 440,90 STKS,PSI 2100/2450,TORQ 8/13 K,SLIDE 0%,MW 12.6/40 15%LCM
	22:00 - 0:00	2.00	DRLPRO	06	E	P		SHORTTRIP OUT TO 8450',PUMPOUT 10 STNDS,START BACK IN
3/25/2011	0:00 - 1:00	1.00	DRLPRO	06	E	P		FINISH SHORTTRIP,NO PROBLEMS
	1:00 - 2:00	1.00	DRLPRO	05	C	P		CIRC BTMS UP.NO FLARE
	2:00 - 16:00	14.00	DRLPRO	06	A	P		FLOW CHECK,PUMP OUT 10 STNDS,PUMPPILL & LDDP AND BHA,SHAKE OUT LCM @ SHOE,L/D BHA,PULL WEARRING
	16:00 - 19:00	3.00	EVALPR	11	E	P		MULTIFINGER LOG W/ PSI 2680 UP,REPEAT ACROSS TOP 100'
	19:00 - 0:00	5.00	CSG	12	C	P		RUN 232 JTS 11.6# BTC & 2 MARKERS TO 9798',BOTTOM 5 JTS P110,FC@9756'
3/26/2011	0:00 - 3:30	3.50	CSG	12	C	P		FINISH 4.5 BTC CSG RUN TO 9798'
	3:30 - 4:30	1.00	CSG	05	D	P		CIRC BTMS UP F/CEMENT
	4:30 - 8:00	3.50	CSG	12	E	P		SAFETY MEET W/BJ,PUMP 40 BBLS SPACER,539SX LEAD @12.6# 1.93YLD,1064SX TAIL@14.3# 1.31YLD,DISPLACE 152 BBLS CLAYFIX,FINALLIFT 2650 PSI,BUMPPLUG 500 OVER,FLOATSHELD,2 BBLS CEMENT BACK TO RES PIT
	8:00 - 12:00	4.00	RDMO	14	A	P		SET C-22 CSG SLIPS 102K CSG TENSION,NDBOP

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US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25B1CS [BLUE]		Spud Conductor: 12/15/2010			Spud Date: 2/4/2011			
Project: UTAH-UINTAH		Site: NBU 921-25A PAD			Rig Name No: ENSIGN 139/139, CAPSTAR 310/310			
Event: DRILLING		Start Date: 12/7/2010		End Date: 3/26/2011				
Active Datum: RKB @4,913.00ft (above Mean Sea Level)			UWI: NE/NE/0/9/S/21/E/25/0/0/26/PM/N/489/E/0/575/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
12:00 - 12:00	0.00	RDMO						CONDUCTOR CASING: Cond. Depth set: 40 Cement sx used: 28
								SPUD DATE/TIME: 2/4/2011 15:30
								SURFACE HOLE: Surface From depth: 40 Surface To depth: 2,650 Total SURFACE hours: 22.00 Surface Casing size: 8 5/8 # of casing joints ran: 59 Casing set MD: 2,632.0 # sx of cement: 200/225/200 Cement blend (ppg): 15.8 Cement yield (ft ³ /sk): 1.15 # of bbls to surface: 0 Describe cement issues: LOST RETURNS 130 BBL INTO DISP Describe hole issues: NA
								PRODUCTION: Rig Move/Skid start date/time: 3/19/2011 0:00 Rig Move/Skid finish date/time: 3/19/2011 2:00 Total MOVE hours: 2.0 Prod Rig Spud date/time: 3/19/2011 16:00 Rig Release date/time: 3/26/2011 12:00 Total SPUD to RR hours: 164.0 Planned depth MD 9,830 Planned depth TVD 9,664 Actual MD: 9,820 Actual TVD: 9,658 Open Wells \$: AFE \$: Open wells \$/ft:
								PRODUCTION HOLE: Prod. From depth: 2,655 Prod. To depth: 9,820 Total PROD hours: 104.5 Log Depth: 2600 Float Collar Top Depth: 9756 Production Casing size: 4.5 P110 & I-80 BTC 11.6# # of casing joints ran: 232 & 2 MARKERS Casing set MD: 9,798.0 Stage 1 # sx of cement: 539 LEAD 1064 TAIL Cement density (ppg): 12.6/14.3 Cement yield (ft ³ /sk): 1.93/1.31 Stage 2 # sx of cement: Cement density (ppg): Cement yield (ft ³ /sk): Top Out Cmt # sx of cement: Cement density (ppg): Cement yield (ft ³ /sk): Est. TOC (Lead & Tail) or 2 Stage : 4220/0 Describe cement issues: 2 BBL CEMENT TO RES PIT Describe hole issues: 15%LCM F/5700,12.6 WT
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US ROCKIES REGION**Operation Summary Report**

Well: NBU 921-25B1CS [BLUE]	Spud Conductor: 12/15/2010	Spud Date: 2/4/2011						
Project: UTAH-UINTAH	Site: NBU 921-25A PAD	Rig Name No: ENSIGN 139/139, CAPSTAR 310/310						
Event: DRILLING	Start Date: 12/7/2010	End Date: 3/26/2011						
Active Datum: RKB @4,913.00ft (above Mean Sea Level)		UWI: NE/NE/0/9/S/21/E/25/0/0/26/PM/N/489/E/0/575/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								Max angle: 22.74@1914 Departure: 1136' Max dogleg MD: 3.55@2200'

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US ROCKIES REGION

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1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 921-25B1CS [BLUE]		
Common Name	NBU 921-25B1CS		
Well Name	NBU 921-25B1CS	Wellbore No.	OH
Report No.	1	Report Date	5/9/2011
Project	UTAH-UINTAH	Site	NBU 921-25A PAD
Rig Name/No.		Event	COMPLETION
Start Date	5/9/2011	End Date	5/13/2011
Spud Date	2/4/2011	Active Datum	RKB @4,913.00ft (above Mean Sea Level)
UWI	NE/NE/0/9/S/21/E/25/0/0/26/PM/N/489/E/0/575/0/0		

1.3 General

Contractor	CUTTERS WIRELINE	Job Method	PERFORATE	Supervisor	DAVE DANIELS
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

1.4 Initial Conditions

1.5 Summary

Fluid Type		Fluid Density		Gross Interval	7,603.0 (ft)-9,628.0 (ft)	Start Date/Time	5/9/2011 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	33	End Date/Time	5/9/2011 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	190	Net Perforation Interval	56.00 (ft)
Hydrostatic Press		Press Difference		Avg Shot Density	3.39 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun

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2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	MESAVERDE/			7,603.0	7,604.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,628.0	7,630.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,656.0	7,660.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,749.0	7,750.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,779.0	7,780.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,800.0	7,801.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,859.0	7,861.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			7,902.0	7,904.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,004.0	8,006.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,104.0	8,106.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,182.0	8,185.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,256.0	8,258.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,280.0	8,282.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,343.0	8,344.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,386.0	8,388.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,572.0	8,574.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,652.0	8,654.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,720.0	8,723.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,850.0	8,851.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,908.0	8,909.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AM	MESAVERDE/			8,949.0	8,950.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/Reservoir	CCL@(ft)	CCL-TS(ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	MESAPERDE/			8,972.0	8,973.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAPERDE/			9,000.0	9,001.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAPERDE/			9,070.0	9,072.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAPERDE/			9,152.0	9,153.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAPERDE/			9,180.0	9,182.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAPERDE/			9,308.0	9,310.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAPERDE/			9,330.0	9,332.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAPERDE/			9,448.0	9,450.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAPERDE/			9,491.0	9,492.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAPERDE/			9,511.0	9,512.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAPERDE/			9,602.0	9,603.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAPERDE/			9,626.0	9,628.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

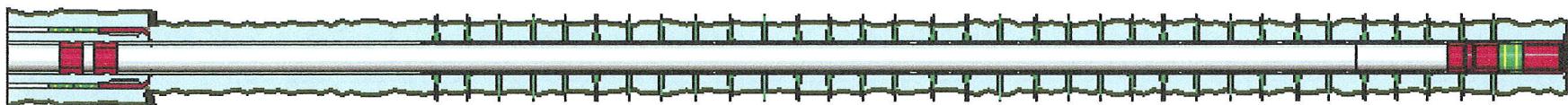
3 Plots

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3.1 Wellbore Schematic

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US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25B1CS [BLUE]		Spud Conductor: 12/15/2010			Spud Date: 2/4/2011			
Project: UTAH-UINTAH		Site: NBU 921-25A PAD			Rig Name No: MILES 3/3			
Event: COMPLETION		Start Date: 5/9/2011			End Date: 5/13/2011			
Active Datum: RKB @4,913.00ft (above Mean Sea Level)			UWI: NE/NE/0/9/S/21/E/25/0/0/26/PM/N/489/E/0/575/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
5/6/2011	7:00 - 17:00	10.00	COMP	47	B	P		HSM, PRESSURE TESTING, MIRU B&C TESTERS, LOCK OPEN SURFACE CSG, P/T CSG & FRAC VALVES, PRESSURE TO 1000# LOST 12# IN 15 MIN, PRESSURE TO 3500# LOST 38# IN 15 MIN, PRESSURE TO 7000# LOST 81# IN 30 MIN. BUMP PRESSURE BACK UP TO 7000# LOST 32# IN 30 MIN. [GOOD TEST]
5/9/2011	7:00 - 8:00	1.00	COMP	48		P		MIRU CUTTERS WIRE LINE, P/U RIH W/ 3-1/8 EXPEND, 23 GRM, 0.36:" HOLE, PERF MESAVERDE 9,448-9,628' [24 HOLES] READY TO START FRAC MON. HSM, RIGGING UP & PRESSURE TESTING. P/T SURFACE LINE TO 7,945#, TEST MANUAL POPOFF, @=7,150#, RESET TESTED & POPPED OFF @=6,850#

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DIV. OF OIL, GAS & MINING

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25B1CS [BLUE]		Spud Conductor: 12/15/2010			Spud Date: 2/4/2011			
Project: UTAH-UINTAH		Site: NBU 921-25A PAD			Rig Name No: MILES 3/3			
Event: COMPLETION		Start Date: 5/9/2011			End Date: 5/13/2011			
Active Datum: RKB @4,913.00ft (above Mean Sea Level)			UWI: NE/NE/0/9/S/21/E/25/0/0/26/PM/N/489/E/0/575/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8:00	- 18:00	10.00	COMP	36	E	P		FRAC STG #1 MESAVERDE 9,488'-9,628'
FRAC STG #1] WHP=1,752#, BRK DN PERFS=3,473#, @=4.5 BPM, INJ RT=48.9, INJ PSI=6,043#, ISIP=2,763#, FG=.73, PUMP'D 1,296 BBLS SLK WTR W/ 18,781# 30/50 MESH W/ 5,200# RESIN COAT IN TAIL W/ 23,981# TOTAL PROP PUMP'D, ISIP=2,926#, FG=.75, AR=45.2, AP=5,873#, MR=50.8, MP=6,702#, NPI=163#, 20/24 CALC PERFS OPEN. 85%.								
PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=9,362', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 9,152'-9,332' [24 HOLES]								
FRAC STG #2] WHP=824#, BRK DN PERFS=2,997#, @=4.7 BPM, INJ RT=40.5, INJ PSI=6,043#, ISIP=2,523#, FG=.71, PUMP'D 1,845 BBLS SLK WTR W/ 32,924# 30/50 MESH W/ 4,930# RESIN COAT IN TAIL W/ 37,854# TOTAL PROP PUMP'D, ISIP=3,127#, FG=.78, AR=45.1, AP=5,633#, MR=49.6, MP=6,581#, NPI=604#, 14/24 CALC PERFS OPEN. 60%								
PERF STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=9,102', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 8,850'-9,072' [24 HOLES]								
FRAC STG #3] WHP=1,245#, BRK DN PERFS=2,998#, @=2.8 BPM, INJ RT=48.3, INJ PSI=5,751#, ISIP=2,460#, FG=.71, PUMP'D 2,503 BBLS SLK WTR W/ 49,462# 30/50 MESH W/ 4,986# RESIN COAT IN TAIL W/ 54,448# TOTAL PROP PUMP'D, ISIP=2,724#, FG=.74, AR=47.8, AP=5,566#, MR=49, MP=6,610#, NPI=264#, 19/24 CALC PERFS OPEN. 81%.								
PERF STG #4] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,760', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 8,572'-8,723' [23 HOLES]								
FRAC STG #4] WHP=686#, BRK DN PERFS=2,296#, @=4.8 BPM, INJ RT=48.2, INJ PSI=6,235#, ISIP=1,491#, FG=.61, PUMP'D 1,141 BBLS SLK WTR W/ 18,860# 30/50 MESH W/ 5,091# RESIN COAT IN TAIL W/ 23,951# TOTAL PROP PUMP'D, ISIP=2,577#, FG=.74, AR=48.1, AP=5,670#, MR=49.1, MP=6,580#, NPI=1,086#, 14/23 CALC PERFS OPEN. 60%.								
PERF STG #5] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,422', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 8,256'-8,388' [24 HOLES]								
FRAC STG #5] WHP=237#, BRK DN PERFS=2,758#, @=3.8 BPM, INJ RT=46.5, INJ PSI=5,942#, ISIP=1,486#, FG=.62, PUMP'D 701 BBLS SLK WTR W/ 8,226# 30/50 MESH W/ 5,098# RESIN COAT IN TAIL W/ 13,324# TOTAL PROP PUMP'D, ISIP=2,379#, FG=.72, AR=49.4, AP=6,190#, MR=50.8, MP=6,613#, NPI=893#, 14/24								
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DIV. OF OIL, GAS & MINING								

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25B1CS [BLUE]				Spud Conductor: 12/15/2010			Spud Date: 2/4/2011		
Project: UTAH-UINTAH				Site: NBU 921-25A PAD			Rig Name No: MILES 3/3		
Event: COMPLETION				Start Date: 5/9/2011		End Date: 5/13/2011			
Active Datum: RKB @4,913.00ft (above Mean Sea Level)				UWI: NE/NE/0/9/S/21/E/25/0/0/26/PM/N/489/E/0/575/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
								CALC PERFS OPEN.	60%
5/10/2011	6:45 - 7:00	0.25	COMP	48	P			PERF STG #6] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,215', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 8,004'-8,185' [23 HOLES] SWIFN.	
	7:00 - 14:00	7.00	COMP	36	E	P		HSM, FRACING / WEATHER FRAC STG #6 8,004'-8,185' [23 HOLES]	
								FRAC STG #6] WHP=1,410#, BRK DN PERFS=2,418#, @=4 BPM, INJ RT=50, INJ PSI=5,825#, ISIP=1,779#, FG=.73, PUMP'D 900 BBLS SLK WTR W/ 15,156# 30/50 MESH W/ 3,311# RESIN COAT IN TAIL W/ 18,467# TOTAL PROP PUMP'D, ISIP=2,360#, FG=.73, AR=47.6, AP=5,302#, MR=50.4, MP=6,303#, NPI=381# 17/23 CALC PERFS OPEN. 70%	
								PERF STG #7] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,932', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 7,749'-7,904' [24 HOLES]	
								FRAC STG #7] WHP=532#, BRK DN PERFS=1,814#, @=3.3 BPM, INJ RT=43.4, INJ PSI=6,293#, ISIP=863#, FG=.55, PUMP'D 2,033 BBLS SLK WTR W/ 37,988# 30/50 MESH W/ 4,854# RESIN COAT IN TAIL W/ 42,876# TOTAL PROP PUMP'D, ISIP=2,007#, FG=.70, AR=47.2, AP=5,748#, MR=50.4, MP=6,628#, NPI=1,144#, 14/24 CALC PERFS OPEN. 60%	
								PERF STG #8] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,690', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. 7,603'-7,660' [24 HOLES]	
								FRAC STG #8] WHP=1,748#, BRK DN PERFS=2,106#, @=4.6 BPM, INJ RT=50.1, INJ PSI=5,928#, ISIP=1,830#, FG=.68, PUMP'D 1,154 BBLS SLK WTR W/ 31,841# 30/50 MESH W/ 5,453# RESIN COAT IN TAIL W/ 37,294# TOTAL PROP PUMP'D, ISIP=2,325#, FG=.74, AR=50.4, AP=5,569#, MR=50.9, MP=6,143#, NPI=495#, 16/24 CALC PERFS OPEN. 68%.	
5/12/2011	7:00 - 7:15	0.25	COMP	48	P			P/U RIH W/ HALIBURTON PLUG SET FOR TOP KILL @=7,553' RDMO	
	7:15 - 11:30	4.25	COMP	30	A	P		11,573 TOTAL BBLS 252,161# TOTAL SAND 1,076 GALS SCALE INHIB 208 GALS BIOCIDE JSA- RDSU. RUSU. ND/NU. PU TBG. RDSU. ROAD RIG AND EQUIP FROM 922-29J PAD. RUSU. ND WH. NU BOP. RU FLOOR AND TBG EQUIP.	
	11:30 - 17:00	5.50	COMP	31	I	P		SPOT TBG TRAILER. MU 3-7/8" BIT, POBS, AND 1.87" XN. RIH AS MEAS AND PU 2-3/8" L-80 TBG. TAG AT 7542' W/ #238. LD 1-JT. RU DRLG EQUIP. HAVE 237-JTS IN, EOT AT 7513'. FILL TBG AND PRES TEST TO 3000#. GOOD. SDFN	
5/13/2011	7:00 - 7:15	0.25	COMP	48	P			JSA- D/O PLUGS. C/O PBTD. MAKE CONN. PUMP PRESSURE.	

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5/12/2011	7:00 - 7:15	0.25	COMP	48	P			11,573 TOTAL BBLS 252,161# TOTAL SAND 1,076 GALS SCALE INHIB 208 GALS BIOCIDE JSA- RDSU. RUSU. ND/NU. PU TBG. RDSU. ROAD RIG AND EQUIP FROM 922-29J PAD. RUSU. ND WH. NU BOP. RU FLOOR AND TBG EQUIP.	
	7:15 - 11:30	4.25	COMP	30	A	P			
	11:30 - 17:00	5.50	COMP	31	I	P		SPOT TBG TRAILER. MU 3-7/8" BIT, POBS, AND 1.87" XN. RIH AS MEAS AND PU 2-3/8" L-80 TBG. TAG AT 7542' W/ #238. LD 1-JT. RU DRLG EQUIP. HAVE 237-JTS IN, EOT AT 7513'. FILL TBG AND PRES TEST TO 3000#. GOOD. SDFN	
5/13/2011	7:00 - 7:15	0.25	COMP	48	P			JSA- D/O PLUGS. C/O PBTD. MAKE CONN. PUMP PRESSURE.	

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25B1CS [BLUE]		Spud Conductor: 12/15/2010			Spud Date: 2/4/2011			
Project: UTAH-UINTAH		Site: NBU 921-25A PAD			Rig Name No: MILES 3/3			
Event: COMPLETION		Start Date: 5/9/2011			End Date: 5/13/2011			
Active Datum: RKB @4,913.00ft (above Mean Sea Level)			UWI: NE/NE/0/9/S/21/E/25/0/0/26/PM/N/489/E/0/575/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 15:30	8.25	COMP	44	C	P		EST CIRC AND D/O PLUGS.
								#1- C/O 25' SAND TO CBP AT 7553'. D/O IN 11 MIN. 600# INC. FCP 0#. RIH. #2- C/O 30' SAND TO CBP AT 7690'. D/O IN 6 MIN. 300# INC. FCP 0#. RIH. #3- C/O 120' SAND TO CBP AT 7932'. D/O IN 4 MIN. 300# INC. FCP 0#. RIH. #4- C/O 30' SAND TO CBP AT 8215'. D/O IN 5 MIN. 200# INC. FCP 400#. RIH. #5- C/O 34' SAND TO CBP AT 8422'. D/O IN 6 MIN. 200# INC. FCP 250#. RIH. #6- C/O 37' SAND TO CBP AT 8760'. D/O IN 6 MIN. 500# INC. FCP 350#. RIH. #7- C/O 30' SAND TO CBP AT 9102'. D/O IN 6 MIN. 500# INC. FCP 400#. RIH. #8- C/O 30' SAND TO CBP AT 9362'. D/O IN 6 MIN. 200# INC. FCP 400#. RIH. PBTD- C/O 75' SAND TO PBTD AT 9729' (101' RATHOLE) W/ 307-JTS IN. CIRC CLEAN.
								RD PWR SWIVEL. POOH AS LD 20-JTS TBG. PU 4" 10K HANGER. LUB IN AND LAND 287-JTS 2-3/8" L-80 W/ EOT AT 9108.80'. RD FLOOR. ND BOP. NU WH. POBS AT 2900#. SITP 950, SICP 1700. SURFACE CSG OPEN (SURFACE CSG HAD SMALL AMOUNT OF BLOW AND DRLG MUD AS D/O PLUGS, THEN QUIT). HOOK UP TO HAL 9000 AND TURN OVER TO FBC AND SALES. RDSU.
								TBG DETAIL KB 14.00 4" 10K HANGER .83 287-JTS 2-3/8" L-80 9091.77 1.87" XN FE POBS 2.20 EOT 9108.80
								315-JTS DELIVERED, 28-JTS RETURNED
								TWTR 11,573 / TWR 2100 / LTR 9473
								WELL TURNED TO SALES @ 1200 HR ON 5/13/11 - 560 MCFD, 2040 BWPD, CP 1700#, FTP 1600#, CK 20/64"
5/14/2011	12:00 - 10:00		PROD	50				7 AM FLBK REPORT: CP 2350#, TP 1900#, 20/64" CK, 55 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 3270 BBLS LEFT TO RECOVER: 8303
5/14/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2300#, TP 1900#, 20/64" CK, 40 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 4375 BBLS LEFT TO RECOVER: 7198
5/15/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2400#, TP 1850#, 20/64" CK, 36 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 5291 BBLS LEFT TO RECOVER: 6282
5/16/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2700#, TP 1800#, 20/64" CK, 27 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 6064 BBLS LEFT TO RECOVER: 5509
5/17/2011	7:00 -			33	A			

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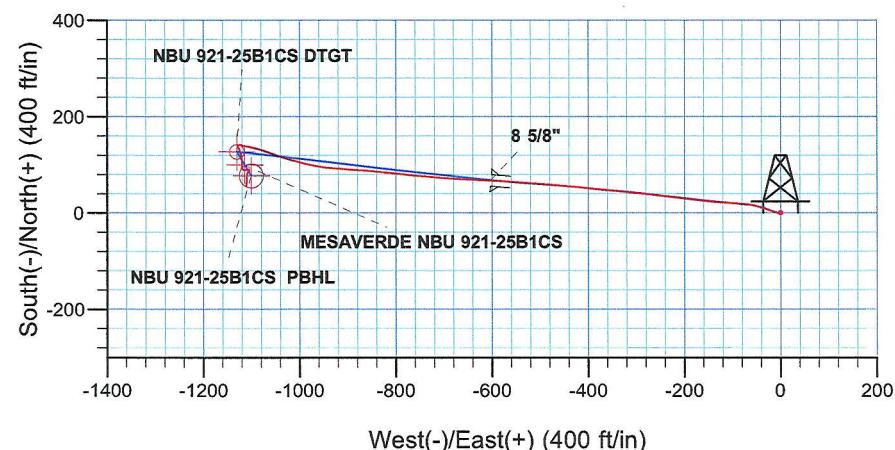
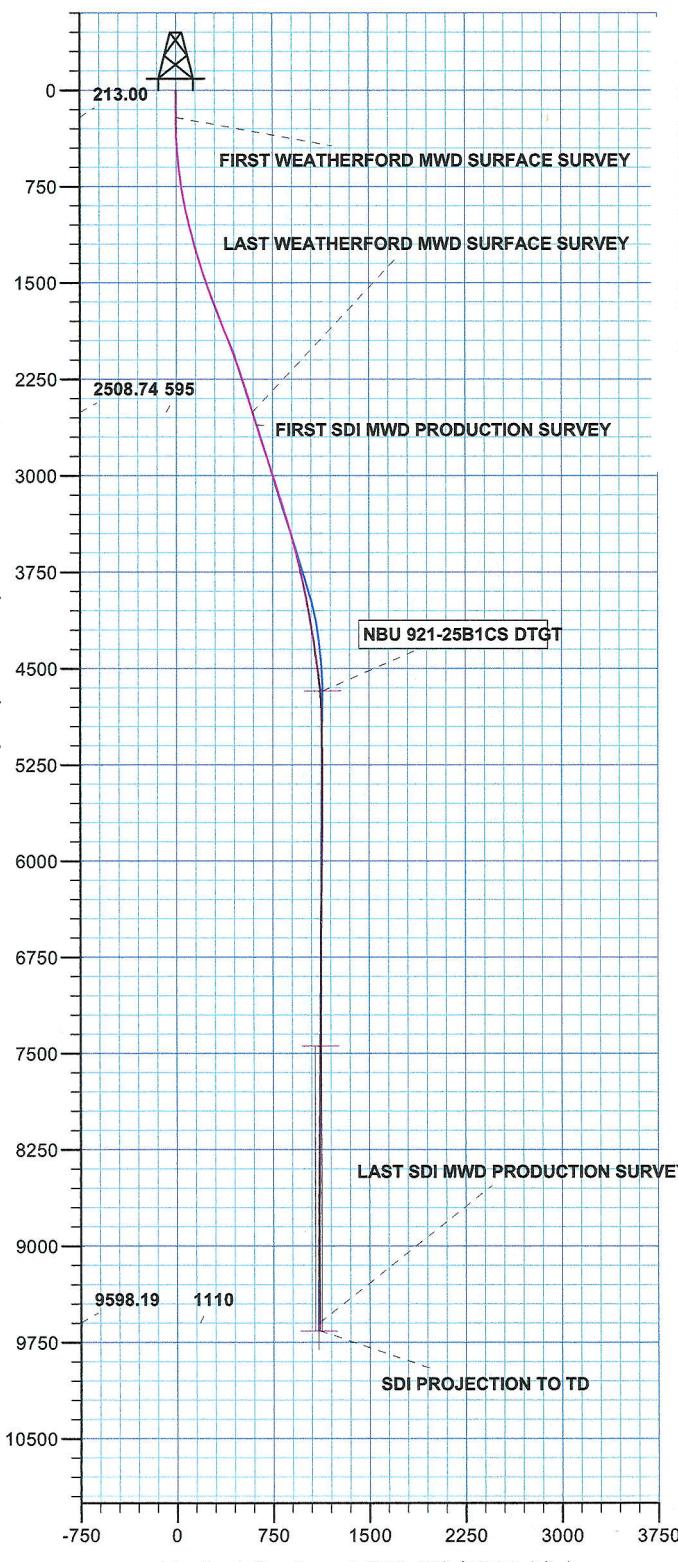
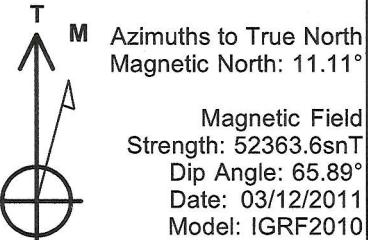
Scientific Drilling
Rocky Mountain Operations

Project: Uintah County, UT
Site: NBU 921-25A Pad
Well: NBU 921-25B1CS
Wellbore: OH
Design: OH

Anadarko
Petroleum Corporation

WELL DETAILS: NBU 921-25B1CS
GL 4899' & RKB 14' @ 4913.00ft (ENSIGN 139)

+N/S 0.00	+E/W 0.00	Northing 14534326.80	Easting 2062662.54	Latitude 40° 0' 46.559 N	Longitude 109° 29' 31.340 W
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PROJECT DETAILS: Uintah County, UT UTM12	
Geodetic System: Universal Transverse Mercator (US Survey Feet)	
Datum:	NAD 1927 - Western US
Ellipsoid:	Clarke 1866
Zone:	Zone 12N (114 W to 108 W)
Location:	SEC 25 T9S R21E
System Datum:	Mean Sea Level

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Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 921-25A Pad
NBU 921-25B1CS

OH

Design: OH

Standard Survey Report

08 April, 2011

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DIV OF OIL, GAS & MINING





Company:	Kerr McGee Oil and Gas Onshore LP	Local Co-ordinate Reference:	Well NBU 921-25B1CS
Project:	Uintah County, UT UTM12	TVD Reference:	GL 4899' & RKB 14' @ 4913.00ft (ENSIGN 139)
Site:	NBU 921-25A Pad	MD Reference:	GL 4899' & RKB 14' @ 4913.00ft (ENSIGN 139)
Well:	NBU 921-25B1CS	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM5000-Roberts-Local

Project	Uintah County, UT UTM12	System Datum:	Mean Sea Level
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US	System Datum:	Mean Sea Level
Map Zone:	Zone 12N (114 W to 108 W)	System Datum:	Mean Sea Level

Site	NBU 921-25A Pad, SEC 25 T9S R21E			
Site Position:		Northing:	14,534,327.34 usft	Latitude:
From:	Lat/Long	Easting:	2,062,672.61 usft	Longitude:
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:

Well	NBU 921-25B1CS, 489' FNL 565' FEL				
Well Position	+N-S	0.00 ft	Northing:	14,534,326.80 usft	Latitude:
	+E-W	0.00 ft	Easting:	2,062,662.53 usft	Longitude:
Position Uncertainty	0.00 ft		Wellhead Elevation:	ft	Ground Level:

Wellbore	OH	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
		IGRF2010	03/12/2011	11.11	65.89	52,364

Design	OH
Audit Notes:	
Version:	1.0
Phase:	ACTUAL
Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)
	+N-S (ft)
	0.00
	+E-W (ft)
	0.00
	Direction (°)
	276.47

Survey Program	Date	04/08/2011	
From (ft)	To (ft)	Survey (Wellbore)	Tool Name
10.00	2,600.00	Survey #1 WFT MWD SURFACE (OH)	MWD
2,701.00	9,820.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00
213.00	0.48	228.84	213.00	-0.56	-0.64	0.57	0.24	0.24	0.00
FIRST WEATHERFORD MWD SURFACE SURVEY									
306.00	1.75	289.40	305.98	-0.34	-2.27	2.22	1.69	1.37	65.12
400.00	2.81	275.53	399.91	0.35	-5.92	5.92	1.26	1.13	-14.76
495.00	3.94	289.53	494.74	1.67	-11.31	11.43	1.46	1.19	14.74
590.00	5.75	288.28	589.40	4.25	-18.91	19.27	1.91	1.91	-1.32
686.00	7.81	290.78	684.72	8.08	-29.58	30.30	2.17	2.15	2.60
781.00	9.38	287.03	778.65	12.63	-43.01	44.16	1.75	1.65	-3.95

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-25A Pad
Well: NBU 921-25B1CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-25B1CS
TVD Reference: GL 4899' & RKB 14' @ 4913.00ft (EN SIGN 139)
MD Reference: GL 4899' & RKB 14' @ 4913.00ft (EN SIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey											
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)		
876.00	10.88	279.78	872.17	16.43	-59.25	60.73	2.07	1.58	-7.63		
971.00	12.25	273.28	965.24	18.53	-78.15	79.74	1.99	1.44	-6.84		
1,065.00	13.88	276.03	1,056.81	20.28	-99.32	100.98	1.86	1.73	2.93		
1,160.00	15.19	273.03	1,148.77	22.14	-123.08	124.79	1.59	1.38	-3.16		
1,255.00	16.19	276.78	1,240.23	24.36	-148.67	150.46	1.50	1.05	3.95		
1,351.00	17.69	277.15	1,332.06	27.75	-176.43	178.43	1.57	1.56	0.39		
1,446.00	18.13	276.53	1,422.46	31.23	-205.44	207.65	0.50	0.46	-0.65		
1,540.00	18.94	276.28	1,511.58	34.56	-235.13	237.53	0.87	0.86	-0.27		
1,634.00	19.69	276.40	1,600.29	38.00	-266.03	268.62	0.80	0.80	0.13		
1,730.00	20.81	275.90	1,690.35	41.55	-299.07	301.84	1.18	1.17	-0.52		
1,825.00	21.69	275.65	1,778.89	45.01	-333.32	336.27	0.93	0.93	-0.26		
1,919.00	22.75	275.53	1,865.91	48.48	-368.70	371.82	1.13	1.13	-0.13		
2,015.00	22.38	276.53	1,954.56	52.34	-405.33	408.65	0.56	-0.39	1.04		
2,110.00	21.50	275.15	2,042.68	55.96	-440.64	444.14	1.07	-0.93	-1.45		
2,205.00	18.13	274.53	2,132.05	58.69	-472.72	476.33	3.55	-3.55	-0.65		
2,300.00	17.38	272.65	2,222.52	60.52	-501.63	505.26	0.99	-0.79	-1.98		
2,394.00	17.38	275.15	2,312.23	62.43	-529.64	533.30	0.79	0.00	2.66		
2,489.00	17.50	273.65	2,402.86	64.61	-558.03	561.75	0.49	0.13	-1.58		
2,600.00	17.45	274.86	2,508.74	67.08	-591.26	595.06	0.33	-0.05	1.09		
LAST WEATHERFORD MWD SURFACE SURVEY											
2,701.00	16.75	271.42	2,605.28	68.73	-620.90	624.69	1.22	-0.69	-3.41		
FIRST SDI MWD PRODUCTION SURVEY											
2,791.00	17.25	272.11	2,691.35	69.54	-647.20	650.92	0.60	0.56	0.77		
2,882.00	18.49	274.00	2,777.95	71.04	-675.08	678.79	1.50	1.36	2.08		
2,973.00	18.68	273.50	2,864.21	72.94	-704.02	707.76	0.27	0.21	-0.55		
3,063.00	18.21	276.01	2,949.59	75.29	-732.40	736.22	1.03	-0.52	2.79		
3,154.00	17.93	274.80	3,036.10	77.95	-760.50	764.44	0.51	-0.31	-1.33		
3,244.00	18.38	277.54	3,121.62	80.97	-788.37	792.47	1.07	0.50	3.04		
3,335.00	17.56	274.02	3,208.18	83.82	-816.29	820.53	1.50	-0.90	-3.87		
3,425.00	17.01	275.84	3,294.12	86.11	-842.93	847.26	0.86	-0.61	2.02		
3,516.00	16.83	276.19	3,381.18	88.88	-869.26	873.74	0.23	-0.20	0.38		
3,606.00	15.25	272.29	3,467.67	90.76	-894.05	898.58	2.12	-1.76	-4.33		
3,697.00	14.37	274.13	3,555.65	92.05	-917.27	921.80	1.10	-0.97	2.02		
3,787.00	13.60	277.08	3,642.98	94.16	-938.91	943.54	1.17	-0.86	3.28		
3,878.00	12.72	277.15	3,731.59	96.73	-959.47	964.26	0.97	-0.97	0.08		
3,968.00	11.79	283.27	3,819.55	100.07	-978.25	983.29	1.77	-1.03	6.80		
4,059.00	11.63	283.86	3,908.65	104.40	-996.20	1,001.62	0.22	-0.18	0.65		
4,149.00	9.72	287.84	3,997.09	108.90	-1,012.24	1,018.07	2.27	-2.12	4.42		
4,240.00	10.36	288.35	4,086.70	113.83	-1,027.32	1,033.61	0.71	0.70	0.56		
4,331.00	10.10	286.58	4,176.25	118.69	-1,042.74	1,049.47	0.45	-0.29	-1.95		
4,421.00	9.49	290.63	4,264.94	123.55	-1,057.24	1,064.43	1.02	-0.68	4.50		
4,511.00	8.68	286.77	4,353.81	128.13	-1,070.69	1,078.31	1.13	-0.90	-4.29		
4,602.00	8.82	287.95	4,443.75	132.26	-1,083.90	1,091.90	0.25	0.15	1.30		

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-25A Pad
Well: NBU 921-25B1CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-25B1CS
TVD Reference: GL 4899' & RKB 14' @ 4913.00ft (ENSIGN 139)
MD Reference: GL 4899' & RKB 14' @ 4913.00ft (ENSIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RoberS-Local

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,692.00	7.77	284.57	4,532.81	135.91	-1,096.35	1,104.69	1.29	-1.17	-3.76	
4,783.00	5.96	281.15	4,623.15	138.38	-1,106.94	1,115.49	2.04	-1.99	-3.76	
4,873.00	4.41	275.48	4,712.78	139.61	-1,114.97	1,123.60	1.81	-1.72	-6.30	
4,964.00	2.42	292.01	4,803.62	140.66	-1,120.24	1,128.95	2.42	-2.19	18.16	
5,054.00	0.88	283.54	4,893.58	141.54	-1,122.67	1,131.47	1.73	-1.71	-9.41	
5,145.00	0.72	271.42	4,984.57	141.72	-1,123.92	1,132.73	0.25	-0.18	-13.32	
5,235.00	0.66	264.40	5,074.56	141.68	-1,125.00	1,133.80	0.12	-0.07	-7.80	
5,326.00	0.59	243.45	5,165.56	141.42	-1,125.94	1,134.71	0.26	-0.08	-23.02	
5,417.00	0.50	223.08	5,256.55	140.92	-1,126.64	1,135.34	0.23	-0.10	-22.38	
5,507.00	0.83	231.84	5,346.55	140.23	-1,127.42	1,136.04	0.38	0.37	9.73	
5,598.00	0.68	212.87	5,437.54	139.37	-1,128.23	1,136.75	0.32	-0.16	-20.85	
5,688.00	0.62	148.75	5,527.54	138.50	-1,128.26	1,136.69	0.77	-0.07	-71.24	
5,779.00	0.80	153.37	5,618.53	137.52	-1,127.72	1,136.04	0.21	0.20	5.08	
5,869.00	0.95	148.34	5,708.52	136.32	-1,127.05	1,135.23	0.19	0.17	-5.59	
5,960.00	0.84	167.80	5,799.51	135.02	-1,126.51	1,134.55	0.35	-0.12	21.38	
6,050.00	1.10	145.93	5,889.49	133.66	-1,125.89	1,133.78	0.50	0.29	-24.30	
6,141.00	1.24	145.58	5,980.48	132.13	-1,124.84	1,132.57	0.15	0.15	-0.38	
6,231.00	1.00	160.61	6,070.46	130.58	-1,124.03	1,131.59	0.42	-0.27	16.70	
6,322.00	1.17	168.59	6,161.44	128.92	-1,123.59	1,130.96	0.25	0.19	8.77	
6,413.00	1.53	157.12	6,252.42	126.89	-1,122.93	1,130.08	0.49	0.40	-12.60	
6,503.00	1.69	175.10	6,342.38	124.47	-1,122.35	1,129.23	0.59	0.18	19.98	
6,593.00	1.93	166.07	6,432.34	121.67	-1,121.87	1,128.44	0.41	0.27	-10.03	
6,684.00	1.81	164.80	6,523.29	118.80	-1,121.13	1,127.37	0.14	-0.13	-1.40	
6,774.00	2.12	168.68	6,613.24	115.79	-1,120.43	1,126.34	0.37	0.34	4.31	
6,865.00	1.41	174.18	6,704.19	113.03	-1,119.98	1,125.58	0.80	-0.78	6.04	
6,955.00	1.08	167.48	6,794.17	111.10	-1,119.69	1,125.07	0.40	-0.37	-7.44	
7,046.00	1.14	181.78	6,885.15	109.36	-1,119.53	1,124.72	0.31	0.07	15.71	
7,137.00	1.19	174.45	6,976.13	107.51	-1,119.47	1,124.45	0.17	0.05	-8.05	
7,227.00	1.51	180.40	7,066.11	105.40	-1,119.38	1,124.13	0.39	0.36	6.61	
7,318.00	1.80	180.91	7,157.07	102.77	-1,119.41	1,123.86	0.32	0.32	0.56	
7,408.00	1.47	179.57	7,247.03	100.20	-1,119.43	1,123.59	0.37	-0.37	-1.49	
7,499.00	2.01	184.02	7,337.99	97.44	-1,119.53	1,123.38	0.61	0.59	4.89	
7,589.00	1.72	193.18	7,427.95	94.55	-1,119.95	1,123.47	0.46	-0.32	10.18	
7,680.00	0.42	160.20	7,518.93	92.91	-1,120.15	1,123.48	1.52	-1.43	-36.24	
7,770.00	0.72	102.75	7,608.92	92.47	-1,119.48	1,122.77	0.68	0.33	-63.83	
7,861.00	0.77	132.36	7,699.92	91.94	-1,118.48	1,121.71	0.42	0.05	32.54	
7,951.00	0.75	143.44	7,789.91	91.05	-1,117.68	1,120.82	0.16	-0.02	12.31	
8,042.00	1.24	106.37	7,880.90	90.30	-1,116.38	1,119.44	0.86	0.54	-40.74	
8,132.00	1.24	116.05	7,970.87	89.60	-1,114.57	1,117.56	0.23	0.00	10.76	
8,223.00	0.71	83.10	8,061.86	89.23	-1,113.12	1,116.09	0.83	-0.58	-36.21	
8,313.00	0.82	64.20	8,151.85	89.58	-1,111.99	1,115.00	0.30	0.12	-21.00	
8,404.00	0.90	71.18	8,242.84	90.09	-1,110.73	1,113.80	0.14	0.09	7.67	
8,495.00	0.90	63.27	8,333.83	90.65	-1,109.41	1,112.56	0.14	0.00	-8.69	
8,585.00	0.89	95.31	8,423.82	90.90	-1,108.09	1,111.27	0.55	-0.01	35.60	



Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-25A Pad
Well: NBU 921-25B1CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-25B1CS
TVD Reference: GL 4899' & RKB 14' @ 4913.00ft (EN SIGN 139)
MD Reference: GL 4899' & RKB 14' @ 4913.00ft (EN SIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,676.00	0.85	77.53	8,514.81	90.98	-1,106.72	1,109.92	0.30	-0.04	-19.54	
8,767.00	0.75	117.15	8,605.80	90.85	-1,105.53	1,108.73	0.60	-0.11	43.54	
8,857.00	0.73	113.61	8,695.80	90.35	-1,104.48	1,107.63	0.06	-0.02	-3.93	
8,948.00	1.02	203.73	8,786.79	89.38	-1,104.28	1,107.32	1.38	0.32	99.03	
9,038.00	1.85	214.96	8,876.76	87.46	-1,105.43	1,108.25	0.97	0.92	12.48	
9,129.00	2.18	214.56	8,967.70	84.83	-1,107.26	1,109.76	0.36	0.36	-0.44	
9,219.00	1.79	195.06	9,057.65	82.06	-1,108.59	1,110.78	0.86	-0.43	-21.67	
9,310.00	2.15	195.12	9,148.60	79.04	-1,109.41	1,111.25	0.40	0.40	0.07	
9,400.00	1.94	179.22	9,238.54	75.89	-1,109.83	1,111.31	0.67	-0.23	-17.67	
9,491.00	2.06	177.74	9,329.48	72.71	-1,109.74	1,110.87	0.14	0.13	-1.63	
9,582.00	2.57	180.55	9,420.41	69.04	-1,109.70	1,110.41	0.57	0.56	3.09	
9,672.00	2.83	183.23	9,510.31	64.80	-1,109.84	1,110.07	0.32	0.29	2.98	
9,760.00	3.02	184.66	9,598.20	60.32	-1,110.15	1,109.88	0.23	0.22	1.63	
LAST SDI MWD PRODUCTION SURVEY										
9,820.00	3.02	184.66	9,658.11	57.17	-1,110.41	1,109.78	0.00	0.00	0.00	
SDI PROJECTION TO TD										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N-S (ft)	+E-W (ft)		Comment
213.00	213.00	-0.56	-0.64	FIRST WEATHERFORD MWD SURFACE SURVEY	
2,600.00	2,508.74	67.08	-591.26	LAST WEATHERFORD MWD SURFACE SURVEY	
2,701.00	2,605.28	68.73	-620.90	FIRST SDI MWD PRODUCTION SURVEY	
9,760.00	9,598.20	60.32	-1,110.15	LAST SDI MWD PRODUCTION SURVEY	
9,820.00	9,658.11	57.17	-1,110.41	SDI PROJECTION TO TD	

Checked By: _____ Approved By: _____ Date: _____

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JUN 23 2011

DIV OF OIL, GAS & MINING



Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 921-25A Pad
NBU 921-25B1CS

OH

Design: OH

Survey Report - Geographic

08 April, 2011

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JUN 23 2011

DM OF OIL, GAS & MINING



Company:	Kerr McGee Oil and Gas Onshore LP		Local Co-ordinate Reference:	Well NBU 921-25B1CS					
Project:	Uintah County, UT UTM12		TVD Reference:	GL 4899' & RKB 14' @ 4913.00ft (EN SIGN 139)					
Site:	NBU 921-25A Pad		MD Reference:	GL 4899' & RKB 14' @ 4913.00ft (EN SIGN 139)					
Well:	NBU 921-25B1CS		North Reference:	True					
Wellbore:	OH		Survey Calculation Method:	Minimum Curvature					
Design:	OH		Database:	EDM5000-RobertS-Local					
Project	Uintah County, UT UTM12								
Map System:	Universal Transverse Mercator (US Survey Feet)		System Datum:	Mean Sea Level					
Geo Datum:	NAD 1927 - Western US								
Map Zone:	Zone 12N (114 W to 108 W)								
Site	NBU 921-25A Pad, SEC 25 T9S R21E								
Site Position:	From: Lat/Long	Northing:	14,534,327.34 usft	Latitude:	40° 0' 46.562 N				
Position Uncertainty:		Easting:	2,062,672.61 usft	Longitude:	109° 29' 31.211 W				
	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.97 °				
Well	NBU 921-25B1CS, 489' FNL 565' FEL								
Well Position	+N-S +E-W	0.00 ft	Northing: Easting:	14,534,326.80 usft 2,062,662.53 usft	Latitude: Longitude:				
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level: 4,899.00 ft				
Wellbore	OH								
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)				
	IGRF2010	03/12/2011	11.11	65.89	52,364				
Design	OH								
Audit Notes:									
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00				
Vertical Section:	Depth From (TVD) (ft)		+N-S (ft)	+E-W (ft)	Direction (°)				
	0.00		0.00	0.00	276.47				
Survey Program	Date 04/08/2011								
From (ft)	To (ft)	Survey (Wellbore)		Tool Name	Description				
10.00	2,600.00	Survey #1 WFT MWD SURFACE (OH)		MWD	MWD - Standard				
2,701.00	9,820.00	Survey #2 SDI MWD PRODUCTION (OH)		MWD SDI	MWD - Standard ver 1.0.1				
Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,534,326.80	2,062,662.53	40° 0' 46.559 N	109° 29' 31.340 W
10.00	0.00	0.00	10.00	0.00	0.00	14,534,326.80	2,062,662.53	40° 0' 46.559 N	109° 29' 31.340 W
213.00	0.48	228.84	213.00	-0.56	-0.64	14,534,326.23	2,062,661.90	40° 0' 46.553 N	109° 29' 31.349 W
FIRST WEATHERFORD MWD SURFACE SURVEY									
306.00	1.75	289.40	305.98	-0.34	-2.27	14,534,326.42	2,062,660.27	40° 0' 46.555 N	109° 29' 31.370 W
400.00	2.81	275.53	399.91	0.35	-5.92	14,534,327.06	2,062,656.61	40° 0' 46.562 N	109° 29' 31.416 W
495.00	3.94	289.53	494.74	1.67	-11.31	14,534,328.28	2,062,651.19	40° 0' 46.575 N	109° 29' 31.486 W
590.00	5.75	288.28	589.40	4.25	-18.91	14,534,330.74	2,062,643.56	40° 0' 46.601 N	109° 29' 31.583 W
686.00	7.81	290.78	684.72	8.08	-29.58	14,534,334.38	2,062,632.83	40° 0' 46.639 N	109° 29' 31.721 W
781.00	9.38	287.03	778.65	12.63	-43.01	14,534,338.71	2,062,619.31	40° 0' 46.684 N	109° 29' 31.893 W
876.00	10.88	279.78	872.17	16.43	-59.25	14,534,342.22	2,062,603.01	40° 0' 46.721 N	109° 29' 32.102 W

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TVD Reference: GL 4899' & RKB 14' @ 4913.00ft (EN SIGN 139)
MD Reference: GL 4899' & RKB 14' @ 4913.00ft (EN SIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey

Measured	Vertical	Map	Map						
Depth	Inclination	Azimuth	Depth	+N/S	+E/W	Northing	Eastng	Latitude	Longitude
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
971.00	12.25	273.28	965.24	18.53	-78.15	14,534,344.00	2,062,584.08	40° 0' 46.742 N	109° 29' 32.345 W
1,065.00	13.88	276.03	1,056.81	20.28	-99.32	14,534,345.40	2,062,562.88	40° 0' 46.759 N	109° 29' 32.617 W
1,160.00	15.19	273.03	1,148.77	22.14	-123.08	14,534,346.85	2,062,539.09	40° 0' 46.778 N	109° 29' 32.923 W
1,255.00	16.19	276.78	1,240.23	24.36	-148.67	14,534,348.64	2,062,513.48	40° 0' 46.800 N	109° 29' 33.251 W
1,351.00	17.69	277.15	1,332.06	27.75	-176.43	14,534,351.57	2,062,485.66	40° 0' 46.833 N	109° 29' 33.608 W
1,446.00	18.13	276.53	1,422.46	31.23	-205.44	14,534,354.55	2,062,456.60	40° 0' 46.867 N	109° 29' 33.981 W
1,540.00	18.94	276.28	1,511.58	34.56	-235.13	14,534,357.38	2,062,426.85	40° 0' 46.900 N	109° 29' 34.363 W
1,634.00	19.69	276.40	1,600.29	38.00	-266.03	14,534,360.29	2,062,395.90	40° 0' 46.934 N	109° 29' 34.760 W
1,730.00	20.81	275.90	1,690.35	41.55	-299.07	14,534,363.29	2,062,362.81	40° 0' 46.969 N	109° 29' 35.185 W
1,825.00	21.69	275.65	1,778.89	45.01	-333.32	14,534,366.17	2,062,328.50	40° 0' 47.004 N	109° 29' 35.625 W
1,919.00	22.75	275.53	1,865.91	48.48	-368.70	14,534,369.03	2,062,293.07	40° 0' 47.038 N	109° 29' 36.080 W
2,015.00	22.38	276.53	1,954.56	52.34	-405.33	14,534,372.28	2,062,256.37	40° 0' 47.076 N	109° 29' 36.551 W
2,110.00	21.50	275.15	2,042.68	55.96	-440.64	14,534,375.30	2,062,221.01	40° 0' 47.112 N	109° 29' 37.005 W
2,205.00	18.13	274.53	2,132.05	58.69	-472.72	14,534,377.49	2,062,188.89	40° 0' 47.139 N	109° 29' 37.417 W
2,300.00	17.38	272.65	2,222.52	60.52	-501.63	14,534,378.82	2,062,159.95	40° 0' 47.157 N	109° 29' 37.789 W
2,394.00	17.38	275.15	2,312.23	62.43	-529.64	14,534,380.26	2,062,131.91	40° 0' 47.176 N	109° 29' 38.149 W
2,489.00	17.50	273.65	2,402.86	64.61	-558.03	14,534,381.96	2,062,103.50	40° 0' 47.197 N	109° 29' 38.513 W
2,600.00	17.45	274.86	2,508.74	67.08	-591.26	14,534,383.87	2,062,070.22	40° 0' 47.222 N	109° 29' 38.941 W
LAST WEATHERFORD MWD SURFACE SURVEY									
2,701.00	16.75	271.42	2,605.28	68.73	-620.90	14,534,385.01	2,062,040.56	40° 0' 47.238 N	109° 29' 39.322 W
FIRST SDI MWD PRODUCTION SURVEY									
2,791.00	17.25	272.11	2,691.35	69.54	-647.20	14,534,385.38	2,062,014.25	40° 0' 47.246 N	109° 29' 39.660 W
2,882.00	18.49	274.00	2,777.95	71.04	-675.08	14,534,386.41	2,061,986.35	40° 0' 47.261 N	109° 29' 40.018 W
2,973.00	18.68	273.50	2,864.21	72.94	-704.02	14,534,387.82	2,061,957.38	40° 0' 47.280 N	109° 29' 40.390 W
3,063.00	18.21	276.01	2,949.59	75.29	-732.40	14,534,389.69	2,061,928.97	40° 0' 47.303 N	109° 29' 40.755 W
3,154.00	17.93	274.80	3,036.10	77.95	-760.50	14,534,391.87	2,061,900.83	40° 0' 47.329 N	109° 29' 41.116 W
3,244.00	18.38	277.54	3,121.62	80.97	-788.37	14,534,394.42	2,061,872.91	40° 0' 47.359 N	109° 29' 41.474 W
3,335.00	17.56	274.02	3,208.18	83.82	-816.29	14,534,396.79	2,061,844.95	40° 0' 47.387 N	109° 29' 41.833 W
3,425.00	17.01	275.84	3,294.12	86.11	-842.93	14,534,398.63	2,061,818.27	40° 0' 47.410 N	109° 29' 42.176 W
3,516.00	16.83	276.19	3,381.18	88.88	-869.26	14,534,400.96	2,061,791.89	40° 0' 47.437 N	109° 29' 42.514 W
3,606.00	15.25	272.29	3,467.67	90.76	-894.05	14,534,402.42	2,061,767.08	40° 0' 47.456 N	109° 29' 42.833 W
3,697.00	14.37	274.13	3,555.65	92.05	-917.27	14,534,403.32	2,061,743.84	40° 0' 47.469 N	109° 29' 43.131 W
3,787.00	13.60	277.08	3,642.98	94.16	-938.91	14,534,405.06	2,061,722.17	40° 0' 47.489 N	109° 29' 43.409 W
3,878.00	12.72	277.15	3,731.59	96.73	-959.47	14,534,407.28	2,061,701.57	40° 0' 47.515 N	109° 29' 43.674 W
3,968.00	11.79	283.27	3,819.55	100.07	-978.25	14,534,410.30	2,061,682.73	40° 0' 47.548 N	109° 29' 43.915 W
4,059.00	11.63	283.86	3,908.65	104.40	-996.20	14,534,414.33	2,061,664.71	40° 0' 47.591 N	109° 29' 44.146 W
4,149.00	9.72	287.84	3,997.09	108.90	-1,012.24	14,534,418.56	2,061,648.59	40° 0' 47.635 N	109° 29' 44.352 W
4,240.00	10.36	288.35	4,086.70	113.83	-1,027.32	14,534,423.23	2,061,633.43	40° 0' 47.684 N	109° 29' 44.546 W
4,331.00	10.10	286.58	4,176.25	118.69	-1,042.74	14,534,427.82	2,061,617.94	40° 0' 47.732 N	109° 29' 44.744 W
4,421.00	9.49	290.63	4,264.94	123.55	-1,057.24	14,534,432.44	2,061,603.35	40° 0' 47.780 N	109° 29' 44.931 W
4,511.00	8.68	286.77	4,353.81	128.13	-1,070.69	14,534,436.79	2,061,589.83	40° 0' 47.825 N	109° 29' 45.103 W
4,602.00	8.82	287.95	4,443.75	132.26	-1,083.90	14,534,440.70	2,061,576.55	40° 0' 47.866 N	109° 29' 45.273 W
4,692.00	7.77	284.57	4,532.81	135.91	-1,096.35	14,534,444.14	2,061,564.04	40° 0' 47.902 N	109° 29' 45.433 W
4,783.00	5.96	281.15	4,623.15	138.38	-1,106.94	14,534,446.42	2,061,553.41	40° 0' 47.926 N	109° 29' 45.569 W
4,873.00	4.41	275.48	4,712.78	139.61	-1,114.97	14,534,447.52	2,061,545.36	40° 0' 47.939 N	109° 29' 45.673 W
4,964.00	2.42	292.01	4,803.62	140.66	-1,120.24	14,534,448.49	2,061,540.08	40° 0' 47.949 N	109° 29' 45.740 W
5,054.00	0.88	283.54	4,893.58	141.54	-1,122.67	14,534,449.32	2,061,537.63	40° 0' 47.958 N	109° 29' 45.772 W
5,145.00	0.72	271.42	4,984.57	141.72	-1,123.92	14,534,449.48	2,061,536.38	40° 0' 47.959 N	109° 29' 45.788 W
5,235.00	0.66	264.40	5,074.56	141.68	-1,125.00	14,534,449.42	2,061,535.30	40° 0' 47.959 N	109° 29' 45.802 W
5,326.00	0.59	243.45	5,165.56	141.42	-1,125.94	14,534,449.15	2,061,534.36	40° 0' 47.956 N	109° 29' 45.814 W
5,417.00	0.50	223.08	5,256.55	140.92	-1,126.64	14,534,448.63	2,061,533.68	40° 0' 47.951 N	109° 29' 45.823 W
5,507.00	0.83	231.84	5,346.55	140.23	-1,127.42	14,534,447.93	2,061,532.91	40° 0' 47.945 N	109° 29' 45.833 W
5,598.00	0.68	212.87	5,437.54	139.37	-1,128.23	14,534,447.06	2,061,532.11	40° 0' 47.936 N	109° 29' 45.843 W
5,688.00	0.62	148.75	5,527.54	138.50	-1,128.26	14,534,446.19	2,061,532.09	40° 0' 47.928 N	109° 29' 45.843 W
5,779.00	0.80	153.37	5,618.53	137.52	-1,127.72	14,534,445.21	2,061,532.65	40° 0' 47.918 N	109° 29' 45.837 W

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-25A Pad
Well: NBU 921-25B1CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well NBU 921-25B1CS
 GL 4899' & RKB 14' @ 4913.00ft (EN SIGN 139)
 GL 4899' & RKB 14' @ 4913.00ft (EN SIGN 139)
 True
 Minimum Curvature
 EDM5000-RobertS-Local

Survey										
Measured	Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Map Northing (usft)	Map Easting (usft)	Map Latitude	Map Longitude
	5,869.00	0.95	148.34	5,708.52	136.32	-1,127.05	14,534,444.03	2,061,533.34	40° 0' 47.906 N	109° 29' 45.828 W
	5,960.00	0.84	167.80	5,799.51	135.02	-1,126.51	14,534,442.74	2,061,533.90	40° 0' 47.893 N	109° 29' 45.821 W
	6,050.00	1.10	145.93	5,889.49	133.66	-1,125.89	14,534,441.39	2,061,534.55	40° 0' 47.880 N	109° 29' 45.813 W
	6,141.00	1.24	145.58	5,980.48	132.13	-1,124.84	14,534,439.88	2,061,535.62	40° 0' 47.865 N	109° 29' 45.800 W
	6,231.00	1.00	160.61	6,070.46	130.58	-1,124.03	14,534,438.35	2,061,536.45	40° 0' 47.849 N	109° 29' 45.789 W
	6,322.00	1.17	168.59	6,161.44	128.92	-1,123.59	14,534,436.69	2,061,536.93	40° 0' 47.833 N	109° 29' 45.783 W
	6,413.00	1.53	157.12	6,252.42	126.89	-1,122.93	14,534,434.67	2,061,537.62	40° 0' 47.813 N	109° 29' 45.775 W
	6,503.00	1.69	175.10	6,342.38	124.47	-1,122.35	14,534,432.26	2,061,538.24	40° 0' 47.789 N	109° 29' 45.767 W
	6,593.00	1.93	166.07	6,432.34	121.67	-1,121.87	14,534,429.47	2,061,538.77	40° 0' 47.761 N	109° 29' 45.761 W
	6,684.00	1.81	164.80	6,523.29	118.80	-1,121.13	14,534,426.61	2,061,539.56	40° 0' 47.733 N	109° 29' 45.752 W
	6,774.00	2.12	168.68	6,613.24	115.79	-1,120.43	14,534,423.62	2,061,540.31	40° 0' 47.703 N	109° 29' 45.743 W
	6,865.00	1.41	174.18	6,704.19	113.03	-1,119.98	14,534,420.86	2,061,540.80	40° 0' 47.676 N	109° 29' 45.737 W
	6,955.00	1.08	167.48	6,794.17	111.10	-1,119.69	14,534,418.94	2,061,541.13	40° 0' 47.657 N	109° 29' 45.733 W
	7,046.00	1.14	181.78	6,885.15	109.36	-1,119.53	14,534,417.20	2,061,541.32	40° 0' 47.639 N	109° 29' 45.731 W
	7,137.00	1.19	174.45	6,976.13	107.51	-1,119.47	14,534,415.35	2,061,541.41	40° 0' 47.621 N	109° 29' 45.730 W
	7,227.00	1.51	180.40	7,066.11	105.40	-1,119.38	14,534,413.24	2,061,541.53	40° 0' 47.600 N	109° 29' 45.729 W
	7,318.00	1.80	180.91	7,157.07	102.77	-1,119.41	14,534,410.61	2,061,541.54	40° 0' 47.574 N	109° 29' 45.730 W
	7,408.00	1.47	179.57	7,247.03	100.20	-1,119.43	14,534,408.04	2,061,541.57	40° 0' 47.549 N	109° 29' 45.730 W
	7,499.00	2.01	184.02	7,337.99	97.44	-1,119.53	14,534,405.28	2,061,541.52	40° 0' 47.522 N	109° 29' 45.731 W
	7,589.00	1.72	193.18	7,427.95	94.55	-1,119.95	14,534,402.39	2,061,541.15	40° 0' 47.493 N	109° 29' 45.737 W
	7,680.00	0.42	160.20	7,518.93	92.91	-1,120.15	14,534,400.74	2,061,540.98	40° 0' 47.477 N	109° 29' 45.739 W
	7,770.00	0.72	102.75	7,608.92	92.47	-1,119.48	14,534,400.32	2,061,541.65	40° 0' 47.473 N	109° 29' 45.731 W
	7,861.00	0.77	132.36	7,699.92	91.94	-1,118.48	14,534,399.80	2,061,542.67	40° 0' 47.467 N	109° 29' 45.718 W
	7,951.00	0.75	143.44	7,789.91	91.05	-1,117.68	14,534,398.93	2,061,543.48	40° 0' 47.459 N	109° 29' 45.707 W
	8,042.00	1.24	106.37	7,880.90	90.30	-1,116.38	14,534,398.20	2,061,544.79	40° 0' 47.451 N	109° 29' 45.691 W
	8,132.00	1.24	116.05	7,970.87	89.60	-1,114.57	14,534,397.52	2,061,546.61	40° 0' 47.444 N	109° 29' 45.667 W
	8,223.00	0.71	83.10	8,061.86	89.23	-1,113.12	14,534,397.18	2,061,548.06	40° 0' 47.441 N	109° 29' 45.649 W
	8,313.00	0.82	64.20	8,151.85	89.58	-1,111.99	14,534,397.55	2,061,549.19	40° 0' 47.444 N	109° 29' 45.634 W
	8,404.00	0.90	71.18	8,242.84	90.09	-1,110.73	14,534,398.09	2,061,550.44	40° 0' 47.449 N	109° 29' 45.618 W
	8,495.00	0.90	63.27	8,333.83	90.65	-1,109.41	14,534,398.66	2,061,551.75	40° 0' 47.455 N	109° 29' 45.601 W
	8,585.00	0.89	95.31	8,423.82	90.90	-1,108.09	14,534,398.94	2,061,553.07	40° 0' 47.457 N	109° 29' 45.584 W
	8,676.00	0.85	77.53	8,514.81	90.98	-1,106.72	14,534,399.04	2,061,554.43	40° 0' 47.458 N	109° 29' 45.567 W
	8,767.00	0.75	117.15	8,605.80	90.85	-1,105.53	14,534,398.93	2,061,555.62	40° 0' 47.457 N	109° 29' 45.551 W
	8,857.00	0.73	113.61	8,695.80	90.35	-1,104.48	14,534,398.45	2,061,556.68	40° 0' 47.452 N	109° 29' 45.538 W
	8,948.00	1.02	203.73	8,786.79	89.38	-1,104.28	14,534,397.48	2,061,556.90	40° 0' 47.442 N	109° 29' 45.535 W
	9,038.00	1.85	214.96	8,876.76	87.46	-1,105.43	14,534,395.54	2,061,555.78	40° 0' 47.423 N	109° 29' 45.550 W
	9,129.00	2.18	214.56	8,967.70	84.83	-1,107.26	14,534,392.88	2,061,554.00	40° 0' 47.397 N	109° 29' 45.573 W
	9,219.00	1.79	195.06	9,057.65	82.06	-1,108.59	14,534,390.09	2,061,552.71	40° 0' 47.370 N	109° 29' 45.591 W
	9,310.00	2.15	195.12	9,148.60	79.04	-1,109.41	14,534,387.06	2,061,551.95	40° 0' 47.340 N	109° 29' 45.601 W
	9,400.00	1.94	179.22	9,238.54	75.89	-1,109.83	14,534,383.90	2,061,551.58	40° 0' 47.309 N	109° 29' 45.606 W
	9,491.00	2.06	177.74	9,329.48	72.71	-1,109.74	14,534,380.72	2,061,551.72	40° 0' 47.277 N	109° 29' 45.605 W
	9,582.00	2.57	180.55	9,420.41	69.04	-1,109.70	14,534,377.05	2,061,551.83	40° 0' 47.241 N	109° 29' 45.605 W
	9,672.00	2.83	183.23	9,510.31	64.80	-1,109.84	14,534,372.81	2,061,551.76	40° 0' 47.199 N	109° 29' 45.607 W
	9,760.00	3.02	184.66	9,598.20	60.32	-1,110.15	14,534,368.33	2,061,551.52	40° 0' 47.155 N	109° 29' 45.611 W
LAST SDI MWD PRODUCTION SURVEY										
9,820.00	3.02	184.66	9,658.11	57.17	-1,110.41	14,534,365.17	2,061,551.32	40° 0' 47.124 N	109° 29' 45.614 W	
SDI PROJECTION TO TD										

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DIV OF OIL, GAS & MINING

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-25A Pad
Well: NBU 921-25B1CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-25B1CS
TVD Reference: GL 4899' & RKB 14' @ 4913.00ft (EN SIGN 139)
MD Reference: GL 4899' & RKB 14' @ 4913.00ft (EN SIGN 139)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/S (ft)	+E/W (ft)	
213.00	213.00	-0.56	-0.64	FIRST WEATHERFORD MWD SURFACE SURVEY
2,600.00	2,508.74	67.08	-591.26	LAST WEATHERFORD MWD SURFACE SURVEY

Checked By: _____

Approved By: _____

Date: _____

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